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# 1. Safety

This chapter contains an overview of the Plassnest system safety concerns and includes:

- Safety Overview
- Safety Conventions
- Cautions and Warnings
- Storage, Transport, and Installation
- EMC Safety



# 1.1 Safety Overview

Plasson's Plassnest system has been designed to meet all known safety requirements. During normal operation, the Plassnest system presents no hazards to the operator or other personnel. However, in certain circumstances, the following potential hazards to operators and maintenance team personnel exist:

- Electrical shock (220 VAC)
- Mechanical hazard (moving parts, pinch points, etc.)
- Overhead hazard
- Heavy object hazard

The information and instructions presented in this document are intended to help personnel work with the Plassnest system in a safe, effective, and efficient manner.



# 1.2 Safety Conventions

Safety information is presented as follows:



**Caution** is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used alert against unsafe practices.

# / WARNING

**Warning** is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in death or severe injury.

# **DANGER**

**Danger** is the signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or severe injury. This signal word is limited to the most extreme situations.



# 1.3 Cautions and Warnings

The following instructions and guidelines are necessary to ensure safe operation and long system life. Before performing any work on the system, become familiar with the following safety sections:

### 1.3.1 General Safety Cautions

# **!** CAUTION

- Read the installation and operation instructions prior to installing or before servicing the system.
- Before working on the system, read all safety standards and instructions to avoid injury or damage to equipment or property.
- Electrical connections must be serviced by a qualified electrician, using certified components only, and according to local regulations and standards.
- Shut off the system before conducting system maintenance.
- Proper operation of the system is not guaranteed if unauthorized parts are used.
- Clean up spills and leaks immediately.
- In case of unusual or irregular noise or vibration, it is necessary to switch off the system.

# **!** CAUTION

- Follow operation instructions and maintenance procedures to prevent mineral and scale build-up.
- Follow operation instructions and maintenance procedures to prevent algae growth on wet surfaces.
- DO NOT use water containing chlorine as it will cause corrosion.
- DO NOT use water containing chlorides content higher than 200 mg/L as it will cause corrosion.



## 1.3.2 General Warnings



• **Hazardous Voltage:** Contact with electrical equipment can cause electric shock or burn if the power supply is turned on. Before starting any work on electrical equipment, disconnect the machine from the power socket.

# 1.4 Storage, Transport, and Installation

## **!** CAUTION

### Storage safety:

- Ambient temperature must be between 5°C and 60°C.
- System must not be exposed to humidity, rain, condensation, dust, or direct sunlight during storage.

### Transport safety:

- Move the system using appropriate lifting equipment.
- Avoid heavy vibration during transport.
- ???

# **CAUTION**

### Installation safety:

- The operator is responsible for the equipment and must not allow unauthorized persons to use the system or be in its vicinity.
- Whenever you handle or repair the equipment, turn off the power supply first.
- Maintenance and repairs must be carried out by qualified technicians authorized by Plasson.
- Always use Plasson components when replacing any defective components.
- All electrical parts must be grounded and installed by a qualified electrician.
- Pay close attention to the safety symbols on the components, as carelessness can lead to serious injury and even death.



### **EMC Safety** 1.5

All Plassnest system components comply with IEC EN 61000-6-3, the emission standard for residential, commercial, and light industrial environments.



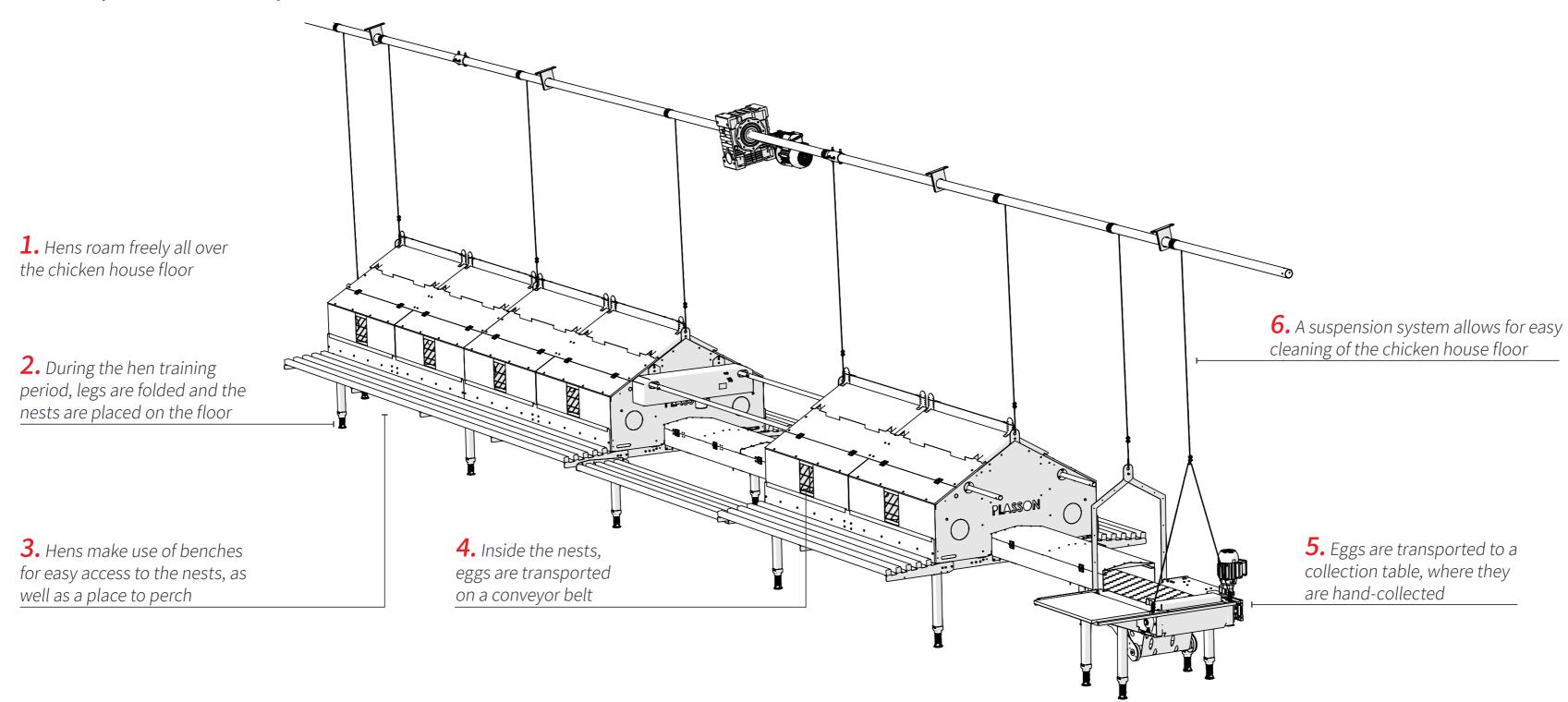
# 2. Introduction

This chapter introduces the Plassnest system and includes:

- System Concept
- System Overview
- Nest Modules (Single/Double)
- Expulsion Sub-system
- Egg Collection Conveyor Belt Sub-system
- Nest Suspension Sub-system
- Power and Control System Overview
- Optional Layouts
- Typical Installation Workflow

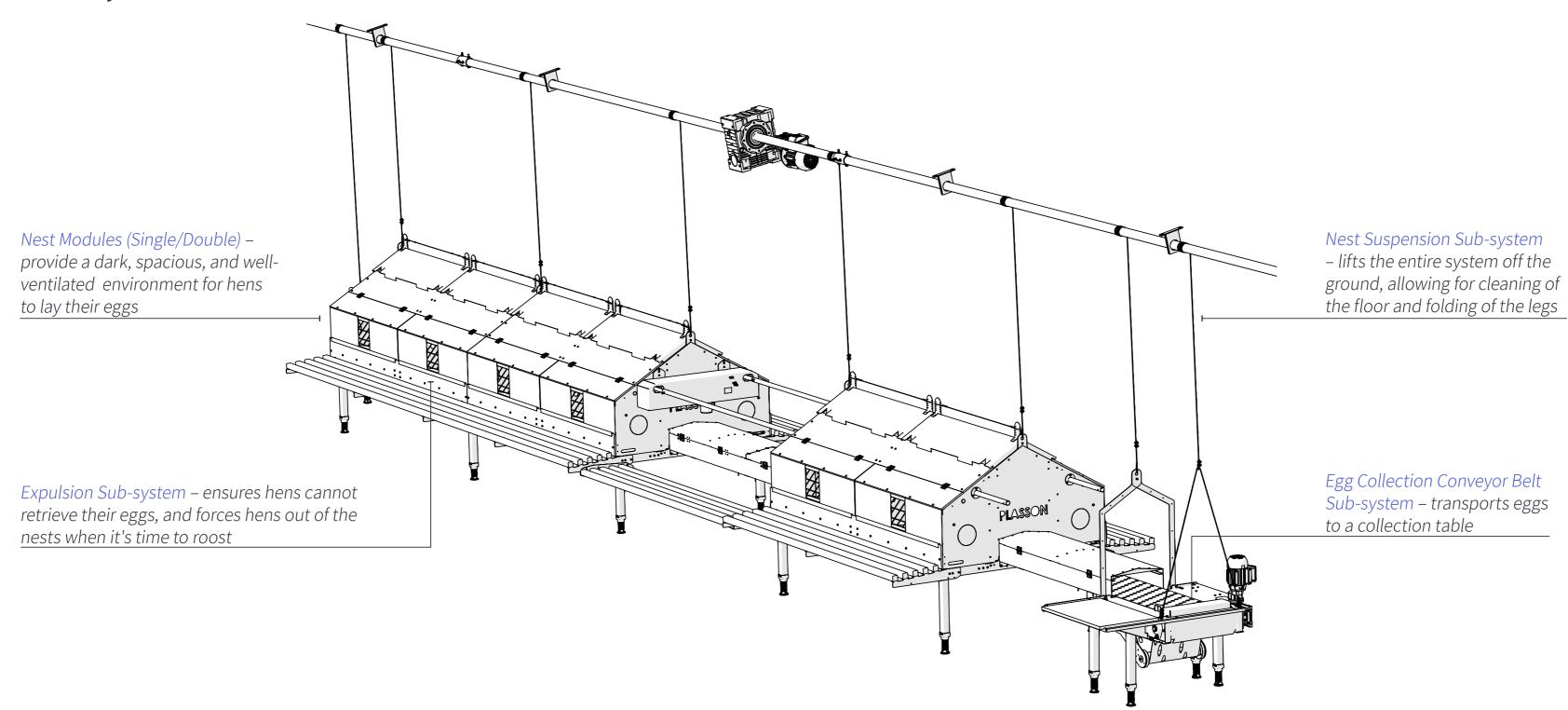


# 2.1 System Concept



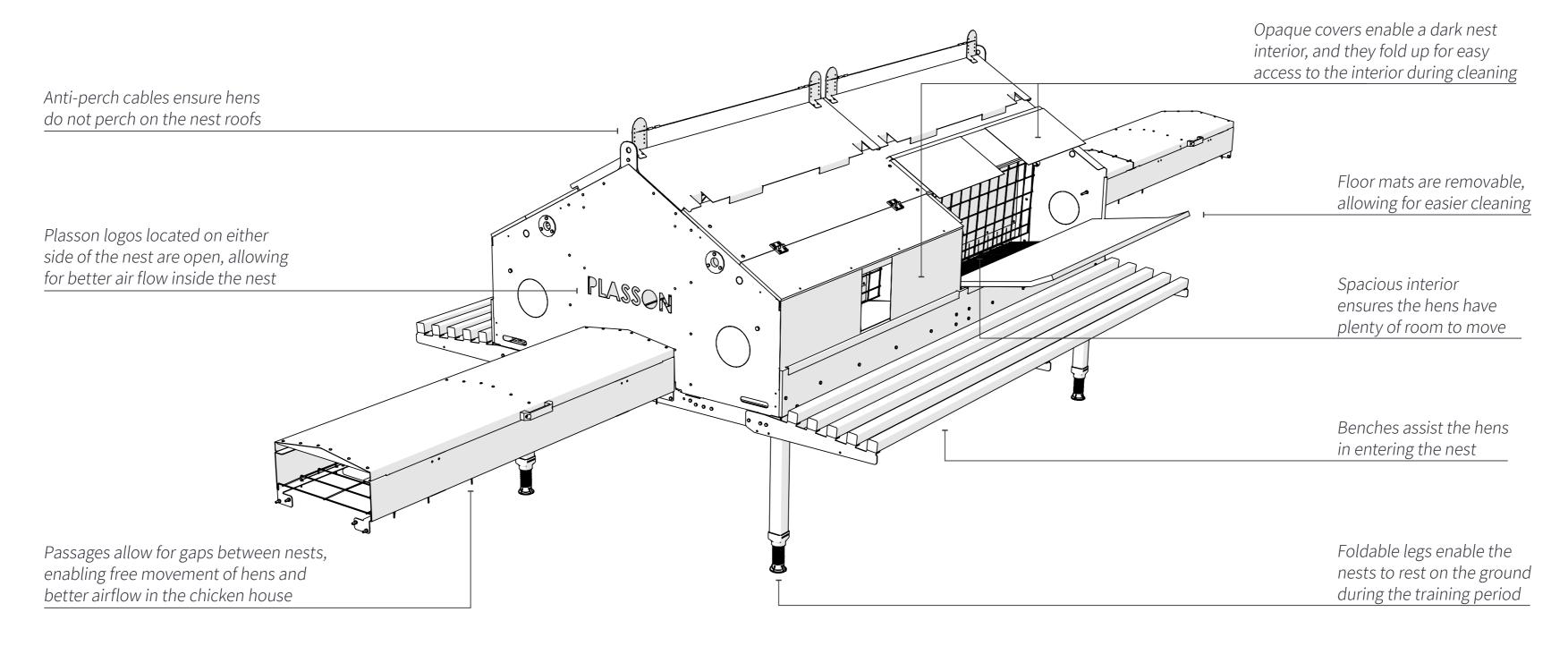


# 2.2 System Overview



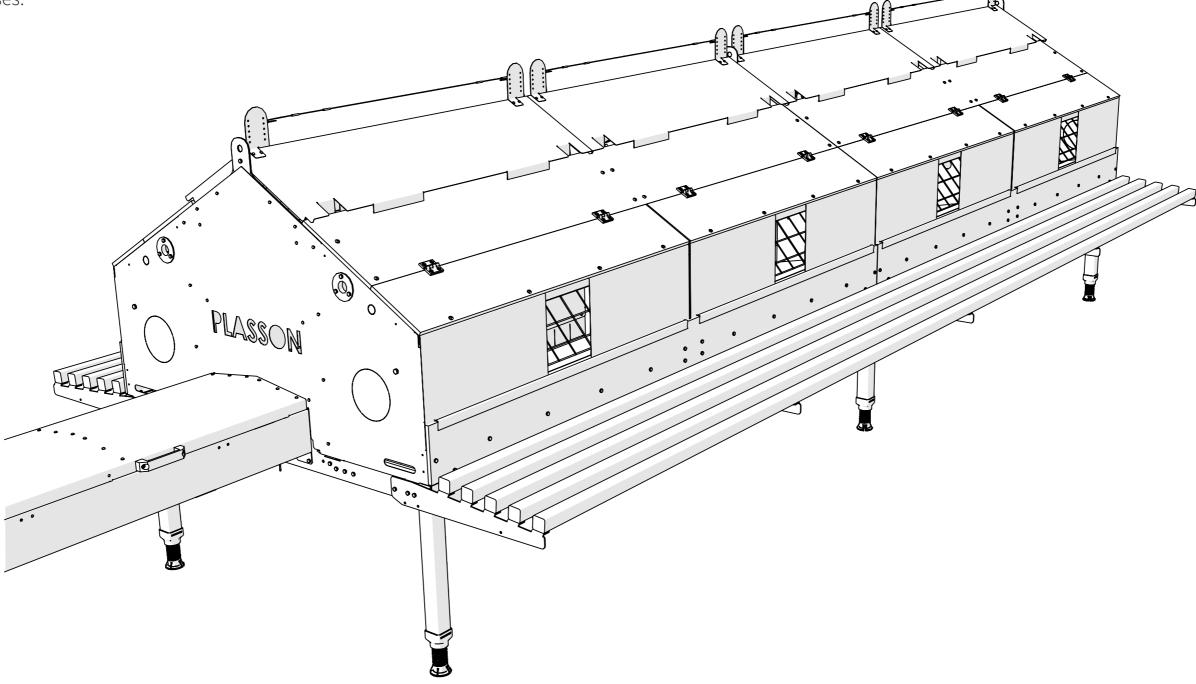


# 2.3 Nest Modules (Single/Double)





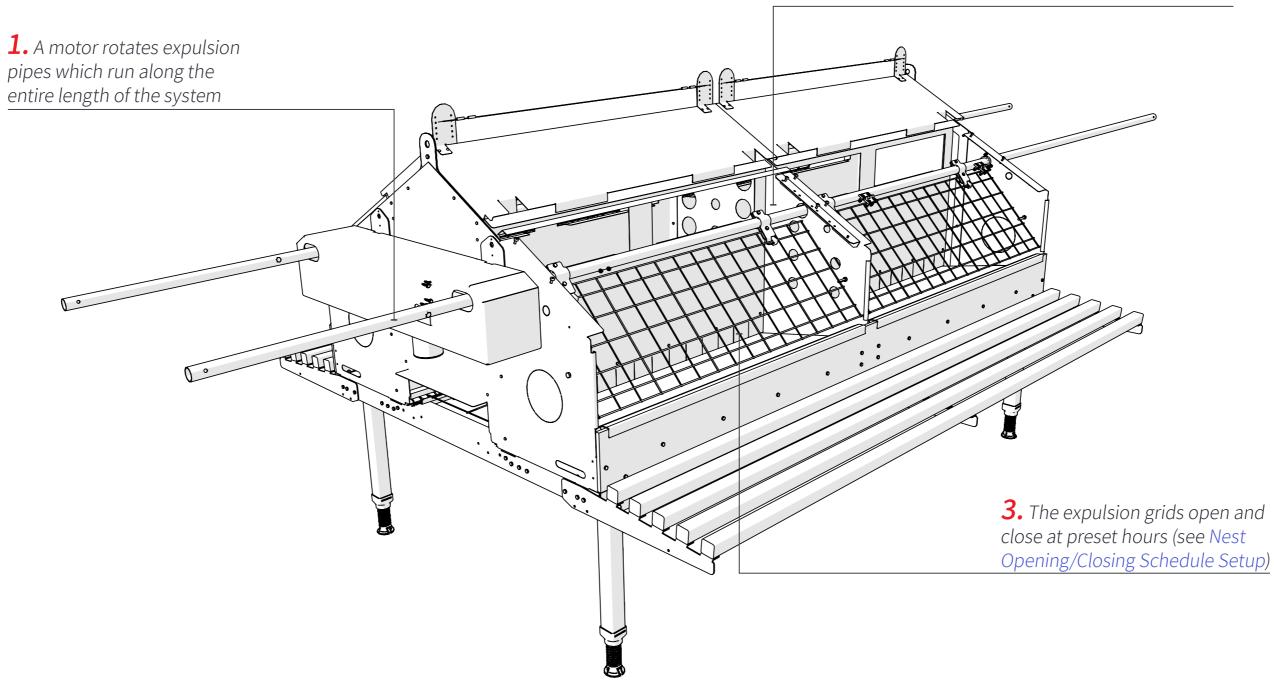
The double nest module provides the same environment for hens as the single nest module. Double nest modules allow for more nesting space in longer breeder houses.





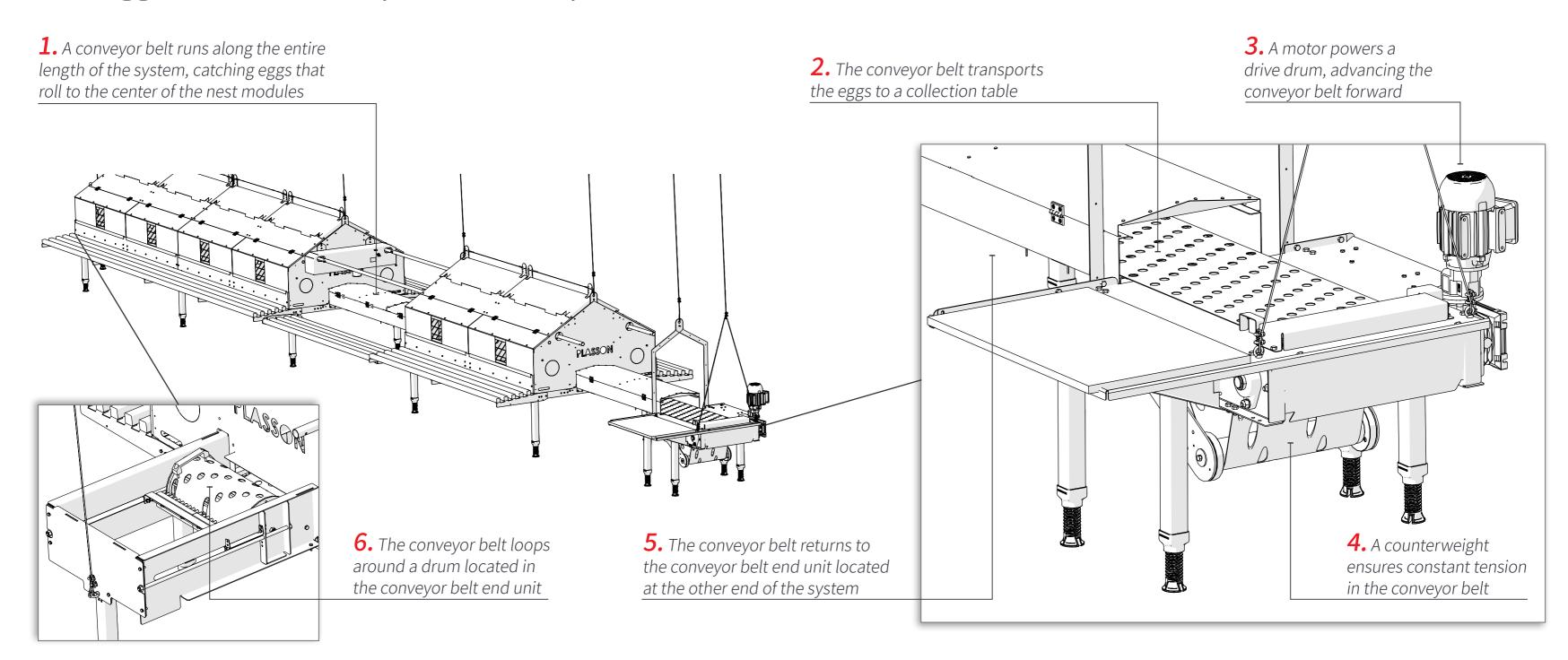
# 2.4 Expulsion Sub-system

2. The expusion pipes are connected to expulsion grids and control their movement



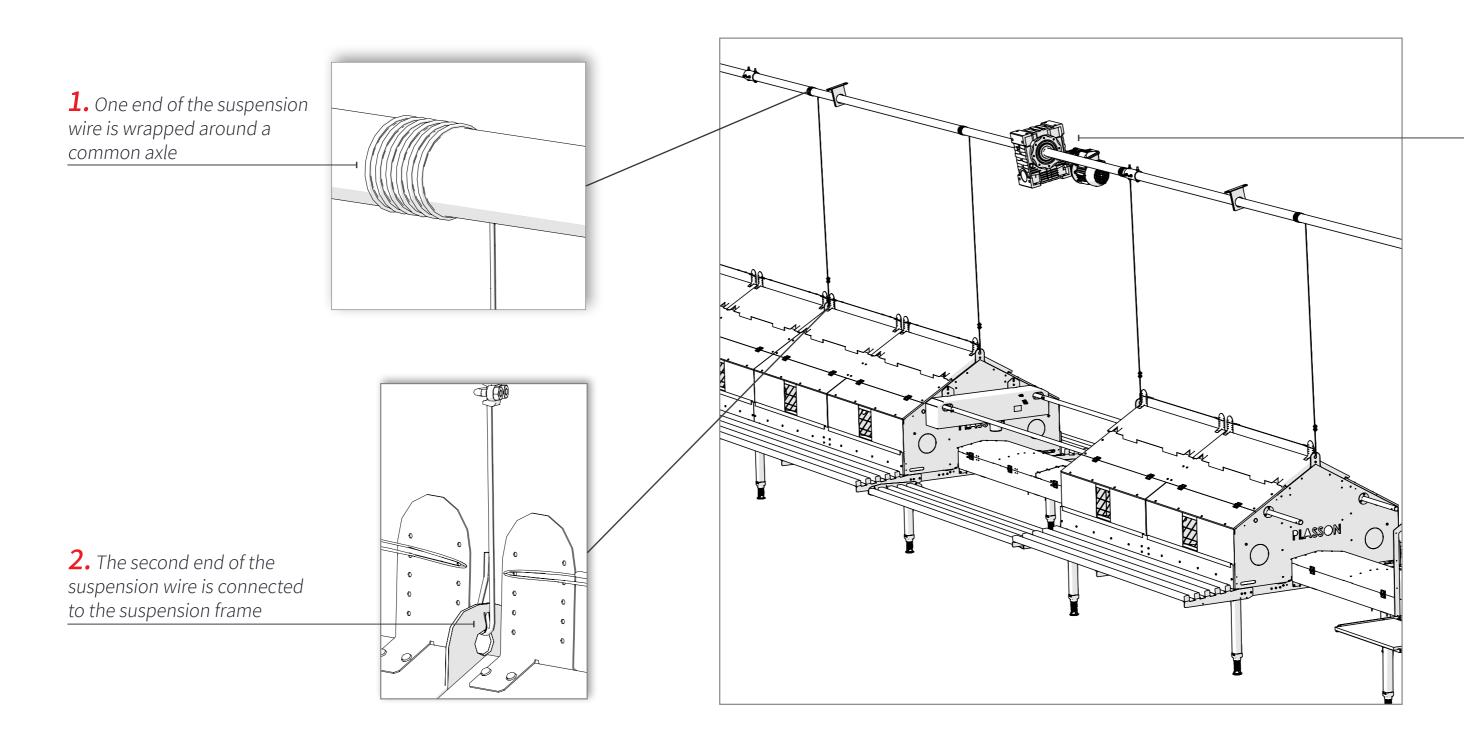


# Egg Collection Conveyor Belt Sub-system





# Nest Suspension Sub-system



**3.** A drive unit attached to the building's rafter tie rotates the common axle, raising and lowering the entire system



# 2.7 Power and Control System Overview

**Expulsion system timer** – sets the times of the day when the expulsion system opens and closes (see Nest Opening/Closing Schedule Setup)

**Expulsion mode switch** – enables opening and closing of the expulsion system to be controlled automatically via the timer (**Auto**) or manually via the Expulsion Movement switch (**Manual**)

**Expulsion movement switch** – enables manually opening (**Open**) and closing (**Close**) the expulsion system

Main power switch

# 

Main Control Cabinet

### Conveyor belt control buttons –

control the speed of the converyor belt (see Running the Egg Collection Conveyor Belt)

## Converyor belt emergency stop button –

immediately stops conveyor belt movement

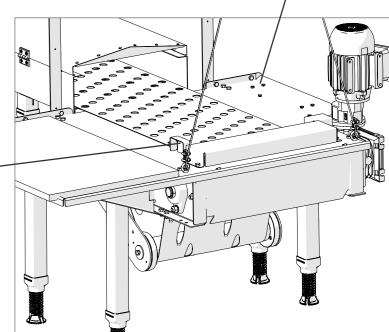
### Converyor belt control switch -

enables conveyor belt movement to be controlled via the remote (1)

**Proximity sensor** – stops the conveyor belt when it senses that an egg has reached the end of the collection table



Conveyor Remote Control





Setting switches to **0** disables their functionality



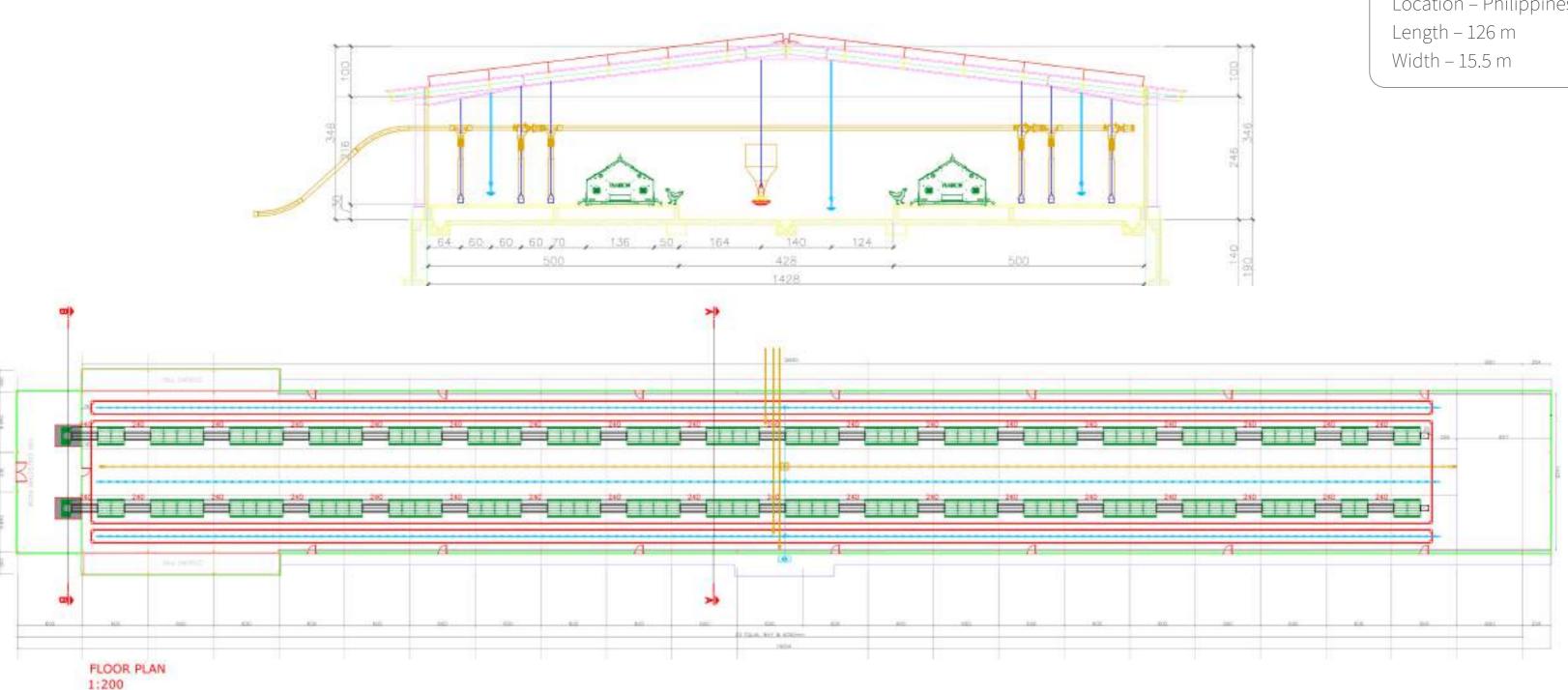
#### **Optional Layouts** 2.8

PlassNest layouts depend on the dimensions of the chicken house, the service area, and the number of layers and breeders. The following are three examples of PlassNest layouts:

- Breeder House All In All Out
- Free Range Commercial Layer House
- Heavy Breeders House



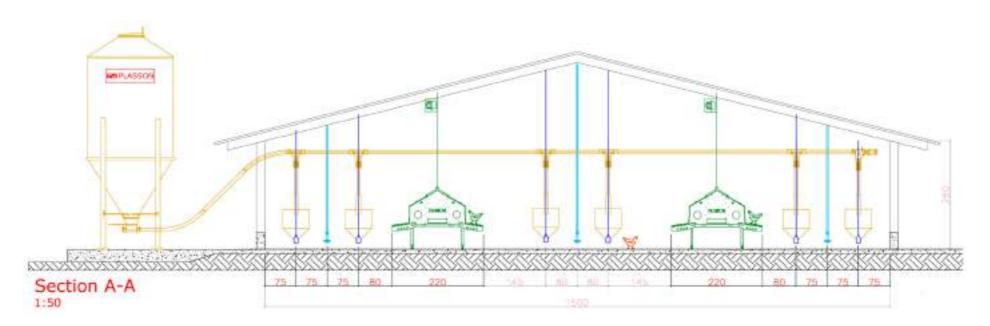
### 2.8.1 Breeder House – All In All Out



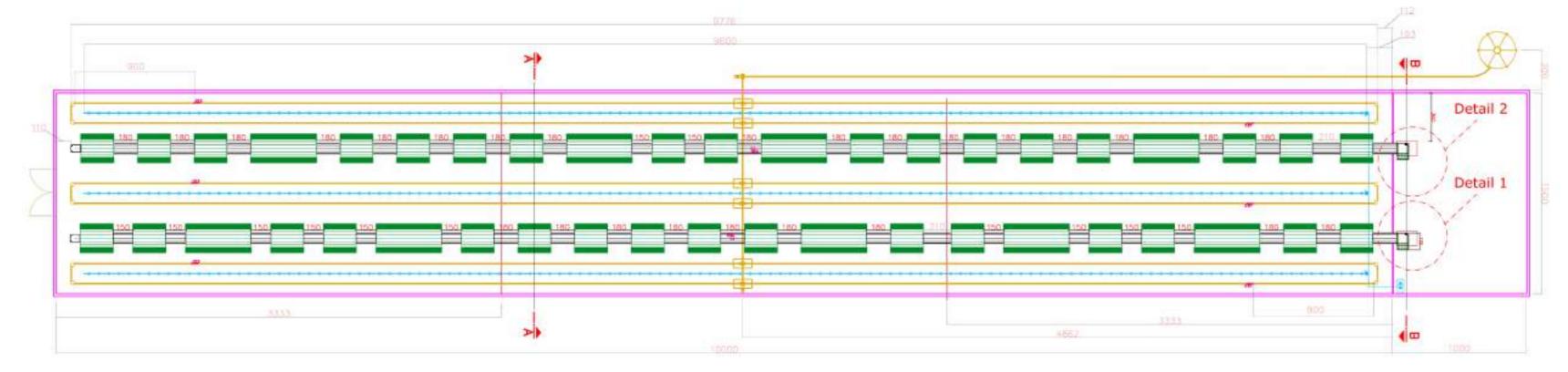
Location – Philippines



# 2.8.2 Free Range Commercial Layer House

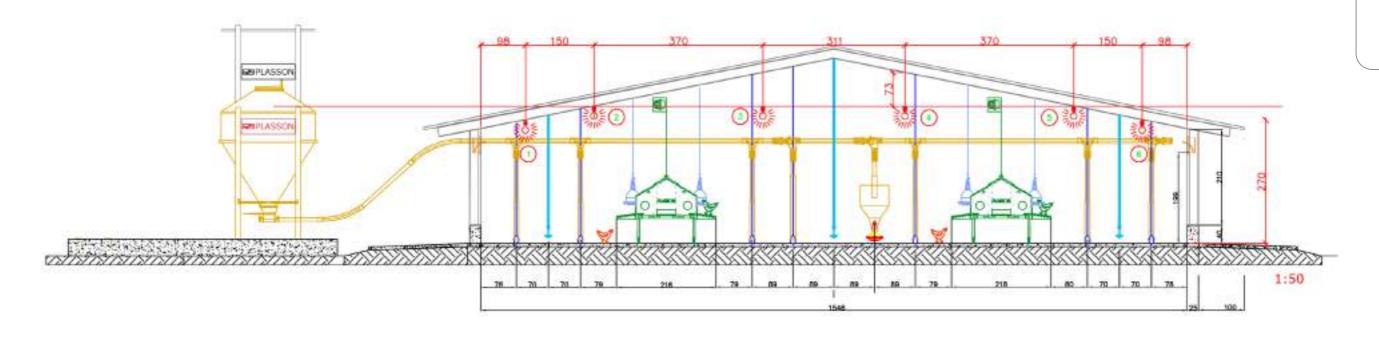


Location – France Length – 100 m Width – 15 m

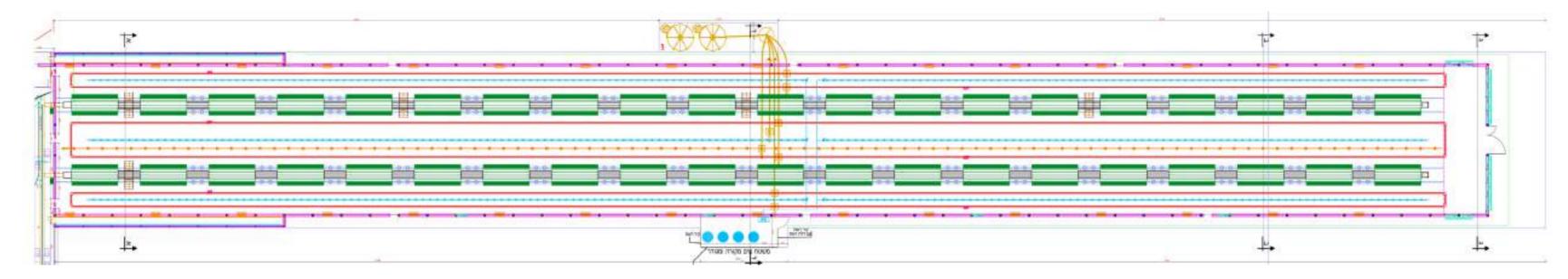




# 2.8.3 Heavy Breeders House



Location – Israel Length – 150+13 m Width - 15.5 m





# Typical Installation Workflow

The typical nest installation workflow is as follows:

- Mark the location of the nest closest to the collection table, using the designed layout as a guide.
- Measure and mark the locations of the rest of the nests.
- Verify there are no conflicts with structural elements of the house (e.g., ensure that the suspension pipe bearings attached to the rafters are not directly over the suspension frames of the nests).
- Verify there are no conflicts with the other systems in the house (i.e., with the cable troughs, the cross auger feeding line, etc.)
- Follow the Assembly Instructions.



# 3. Installation

This chapter reviews the tasks associated with installing the Plassnest system and includes:

- Preparations for Installation
- System Unpacking
- Assembly Instructions
- Power and Control Connections
- Nest Opening/Closing Schedule Setup
- Bill of Materials (BOM)



# Preparations for Installation

This chapter details requirements that must be fulfilled before beginning the installation process and includes:

- Installation Requirements
- Required Tools and Labor



## 3.1.1 Installation Requirements

Before installing the PlassNest system, ensure the following:

- All construction on the chicken house has been completed.
- The installation site is free from debris.
- Electric power for the suspension system, expulsion system, and conveyor belt is set up and ready to be connected (see Power and Control Connections)



## Required Tools and Labor

### **Standard Tools**

- Two sets of metric open-end wrenches (8, 10, 13, 17, and 19 mm)
- One set of metric ring wrenches (8, 10, 13, 17, and 19 mm)
- One set of metric socket wrenches (8, 10, 13, 17, and 19 mm)
- Two sets of Allen keys
- Screwdrivers (flat and Phillips)
- Pliers
- Plier clamps
- Hammers (rubber, plastic, and metal heads)
- Utility knife
- Scissors

### **Power Tools**

- Two drills
- Drill bits for metal (3 to 12.5 mm)
- Drill driver

NOTE: Must be non-impact

- Angle grinder
- Pop rivet gun (electric or pneumatic) NOTE: Need compressed air supply if pneumatic gun is used

### **Electricians Tools**

• Standard electrician tools



# 3.2 System Unpacking

Open the system package and verify that all the parts listed in the Bill of Materials (BOM) are located in the package and are intact. If any part is missing or damaged, contact Plasson.

### **NOTE:**

Unpack the system in a clean and dry area.



# Assembly Instructions

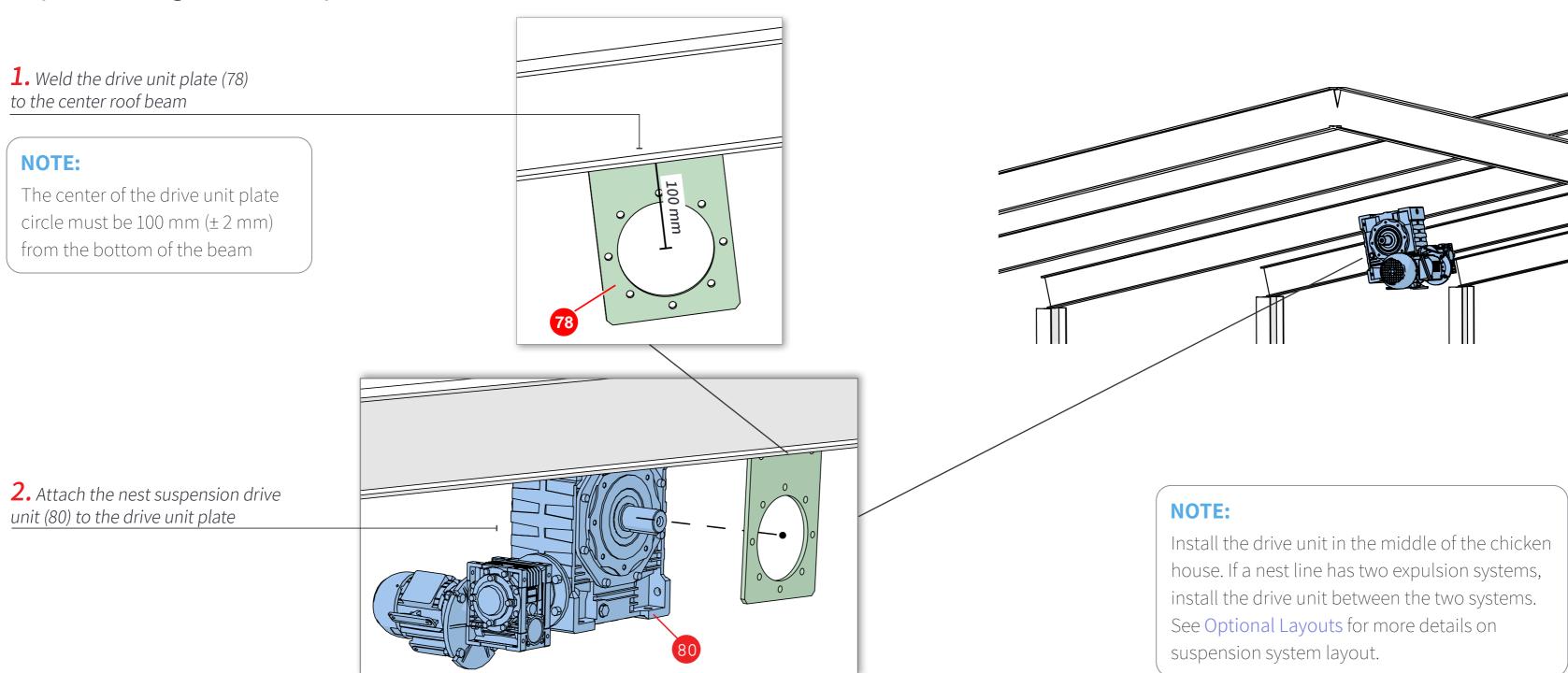
This section reviews the steps required to assemble the system and includes:

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## Step 1: Installing the Nest Suspension Drive Unit



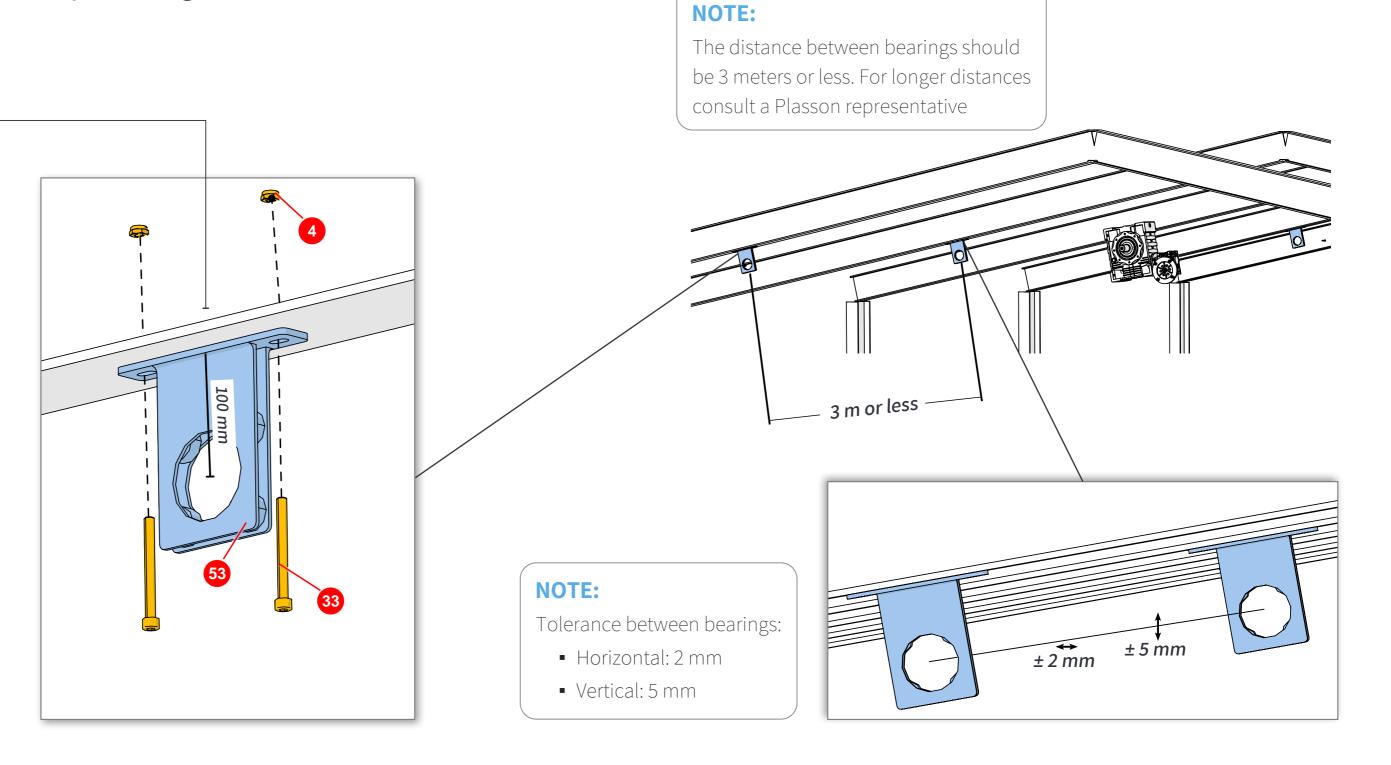


## Step 2: Installing the Suspension Pipe Bearings

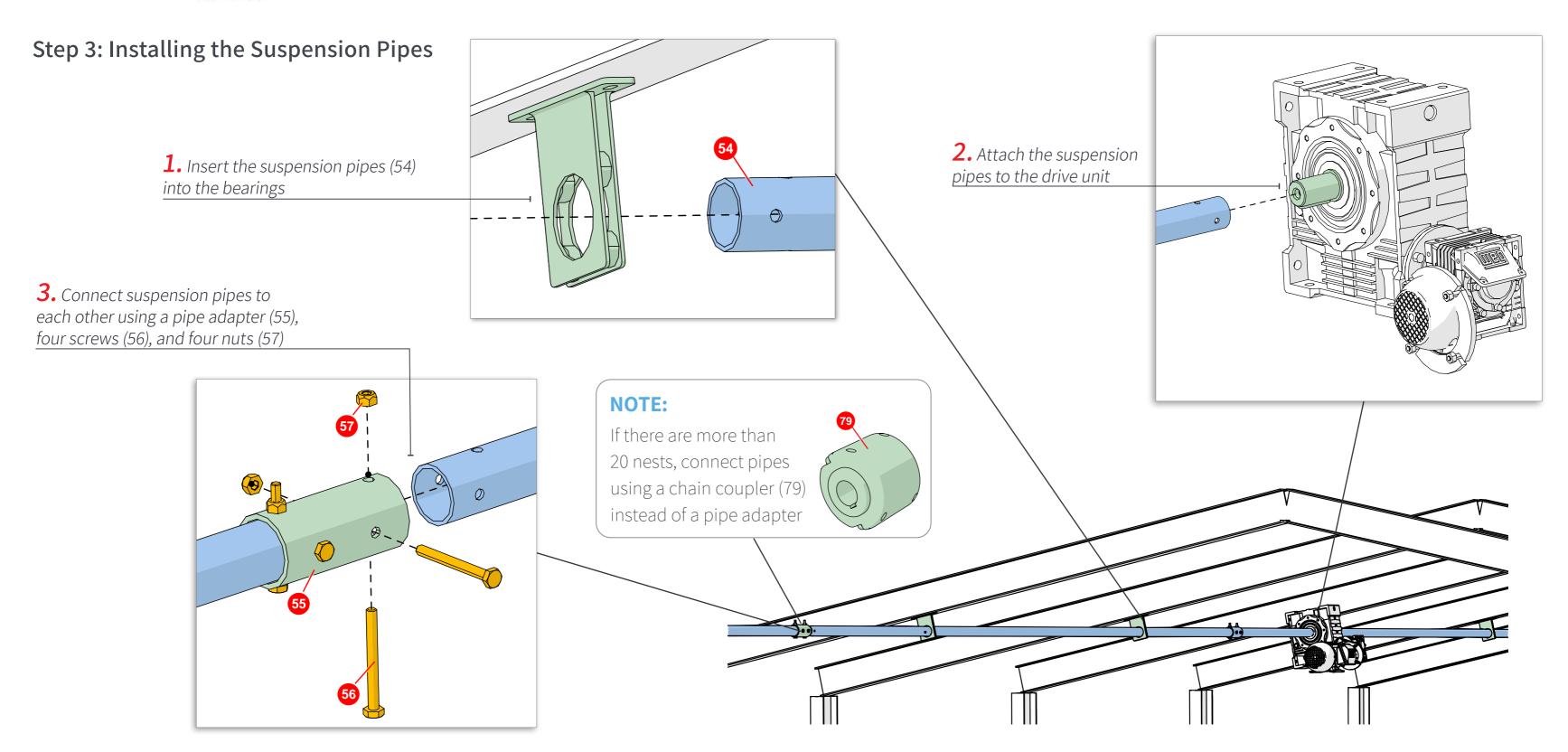
Attach the suspension pipe bearings (53) to the roof beams using two screws (33) and two nuts (4)

### **NOTE:**

The center of the bearing circle must be 100 mm (± 2 mm) from the bottom of the beam







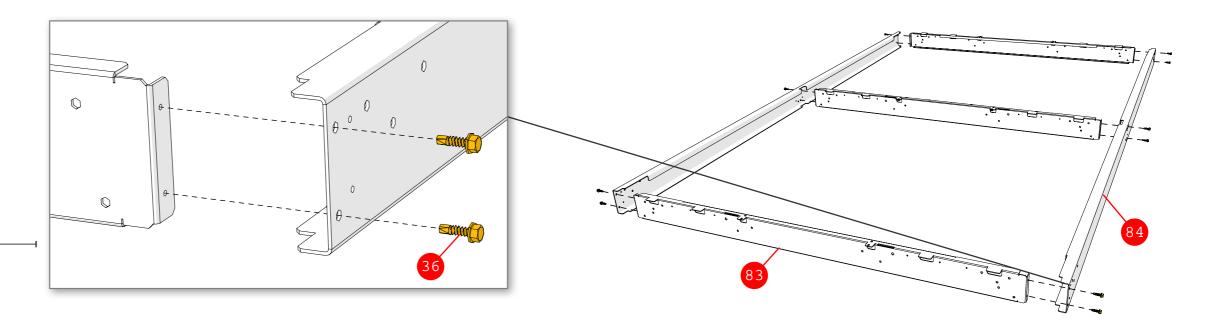


## Step 4: Assembling the Nest Bases

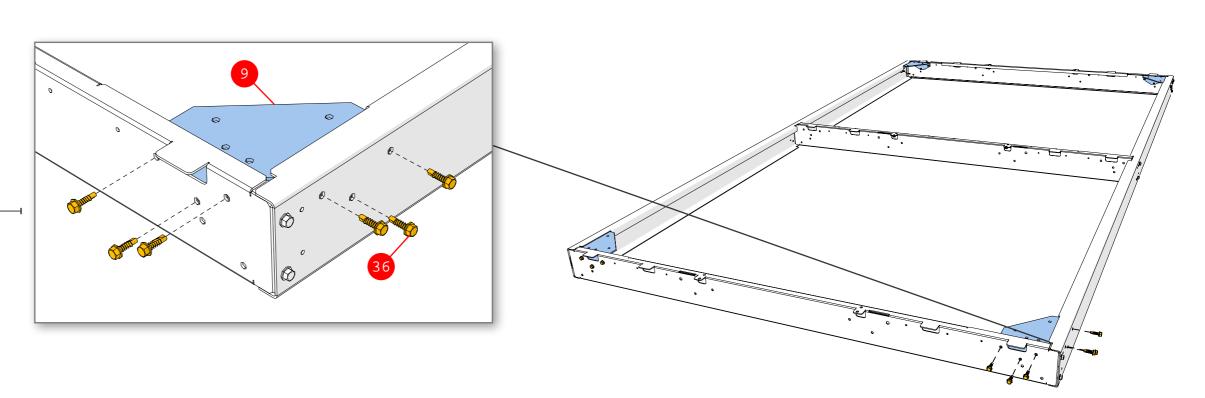
### NOTE:

If the base comes pre-assembled, start with step 3 on the next page

> 1. Attach three short beams (83) to two long beams (84) using twelve self-drilling screws (36)

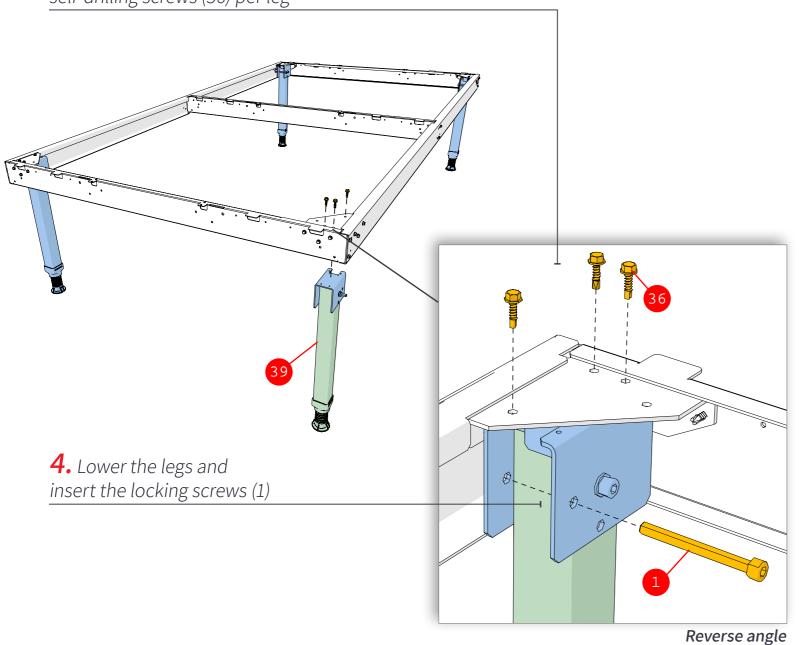


**2.** Attach four corner triangles (9) to the beams using six self-drilling screws (36) per corner triangle



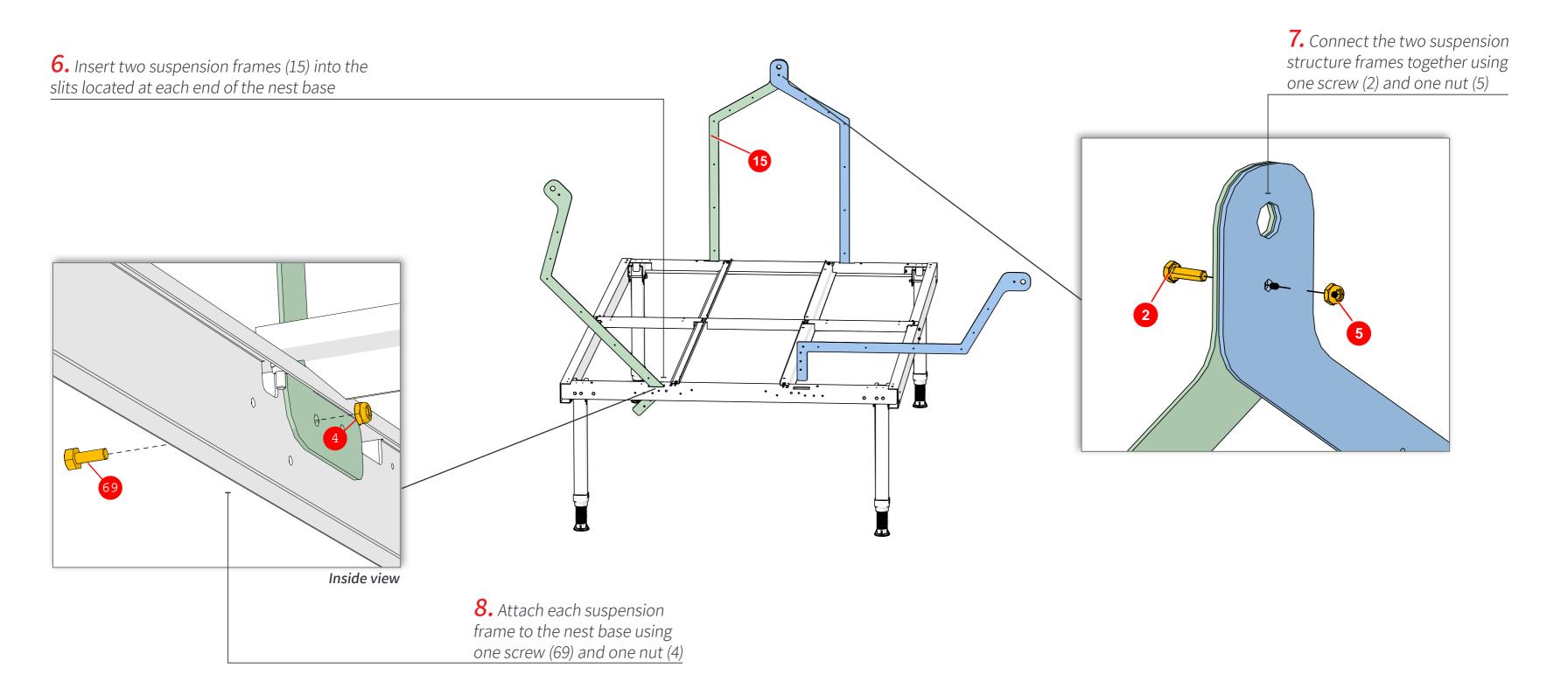


3. Attach legs (39) to the corner triangles using three self-drilling screws (36) per leg



**5.** Attach two middle profiles (7) to the short beams using three screws (2) and three nuts (5) per profile

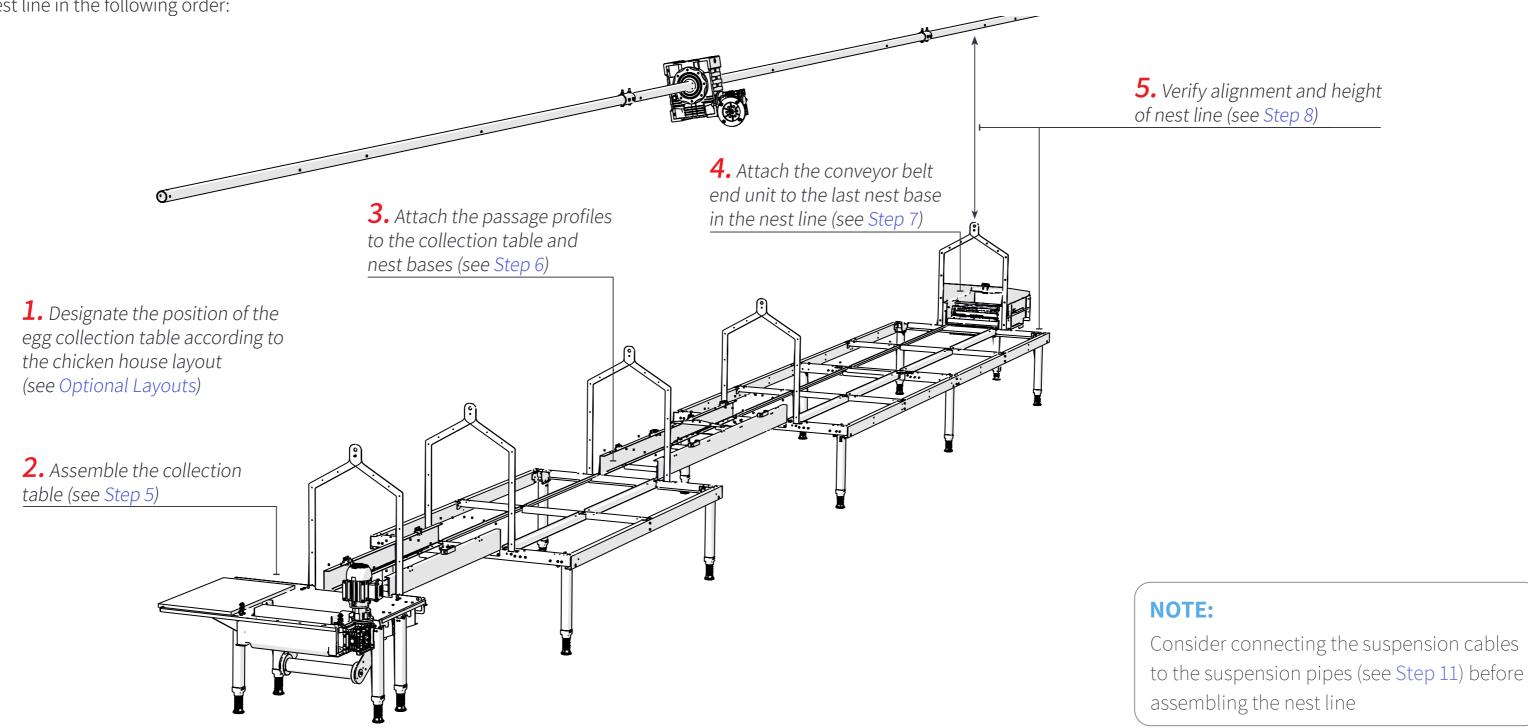






## Assembling the Nest Line

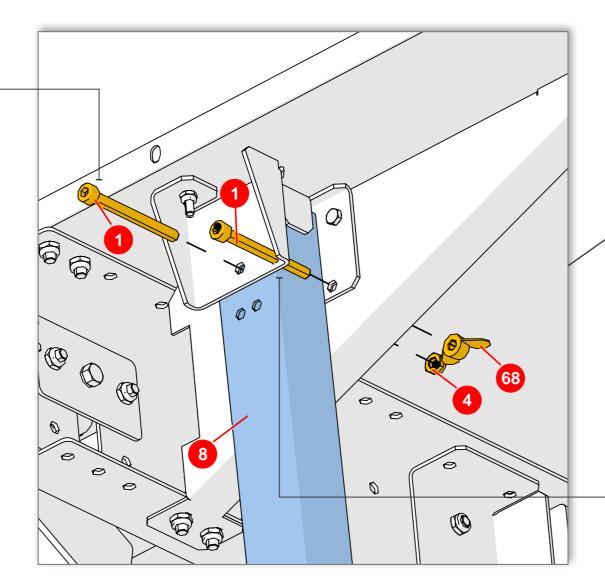
Assemble the nest line in the following order:

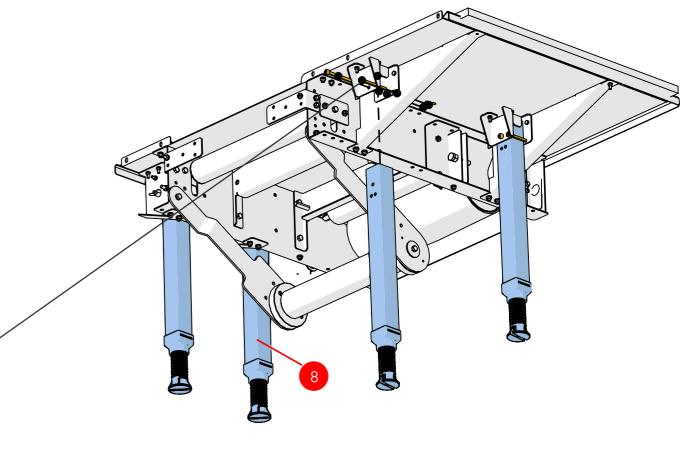




# Step 5: Assembling the Collection Table

**1.** Insert the four collection table legs (8) into the brackets and attach using four screws (1) and four nuts (4)

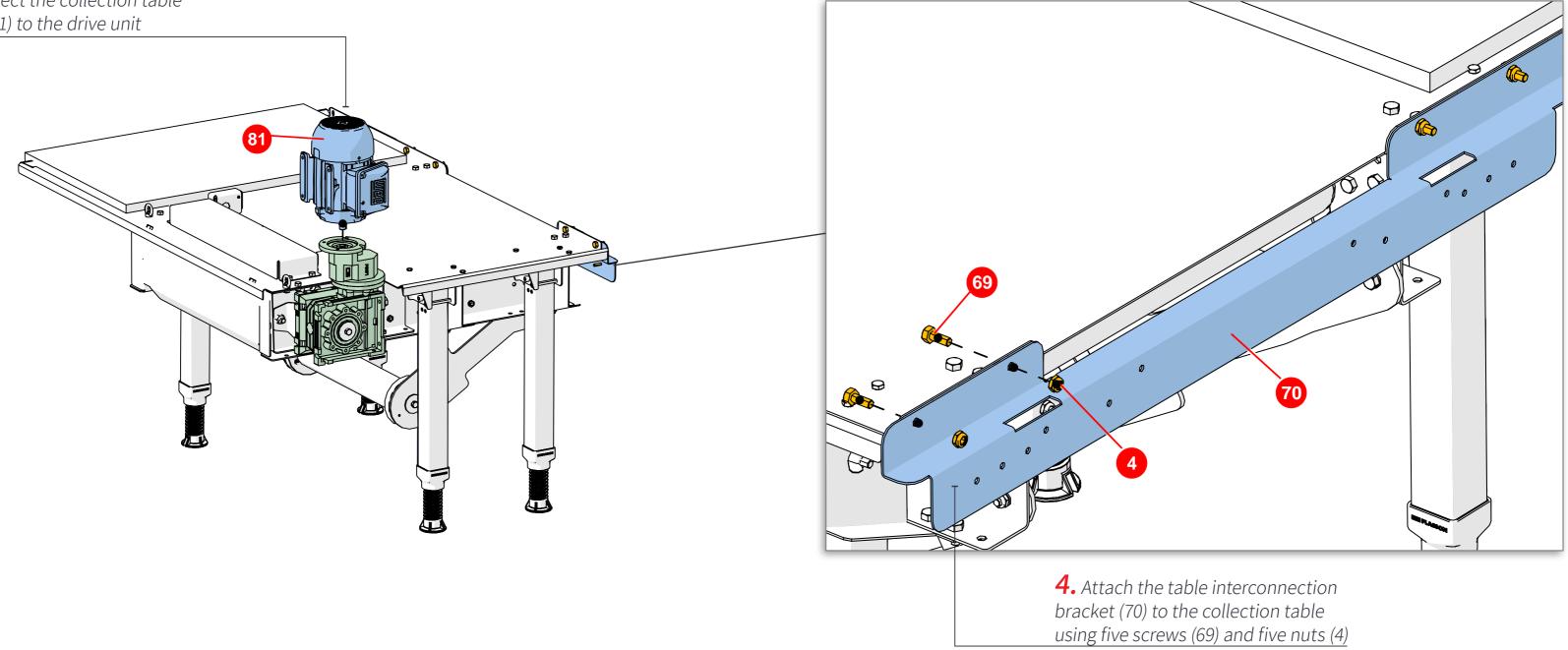




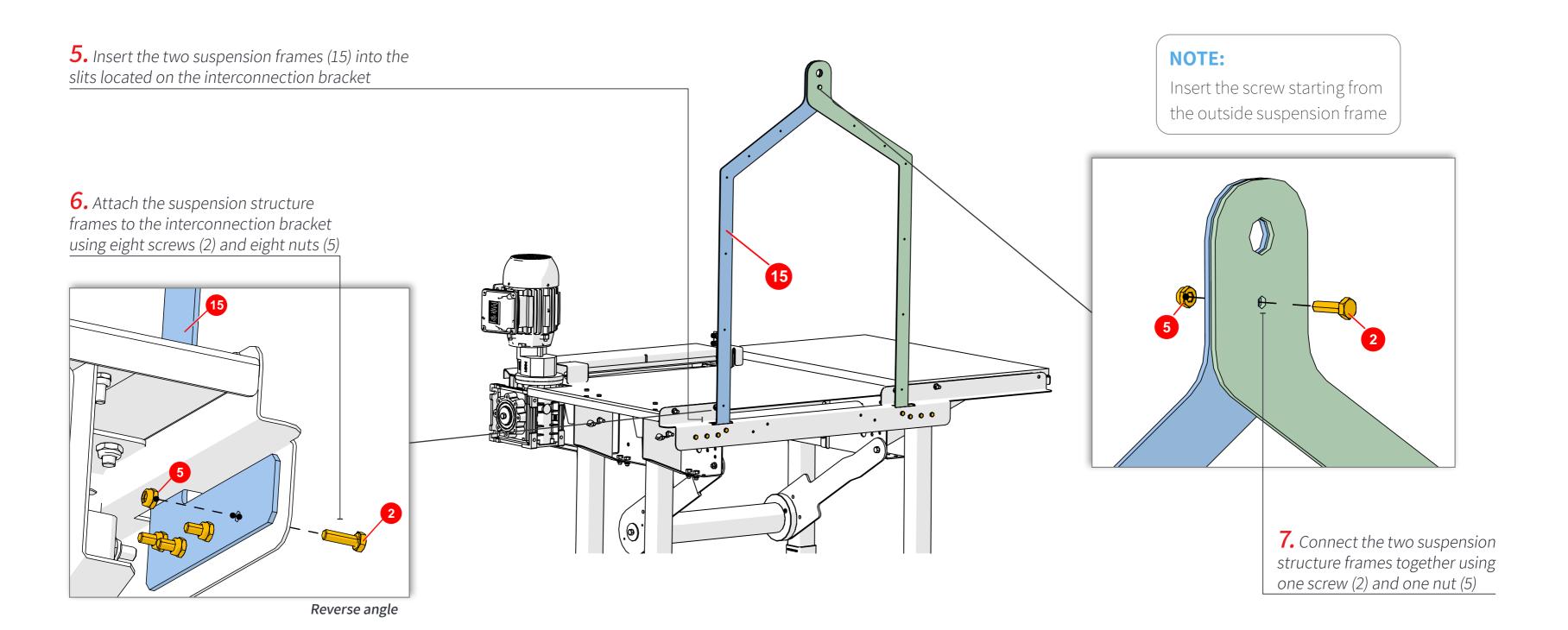
**2.** Insert four locking screws (1) through the four brackets and fasten with four wing nuts (68)



**3.** Connect the collection table motor (81) to the drive unit

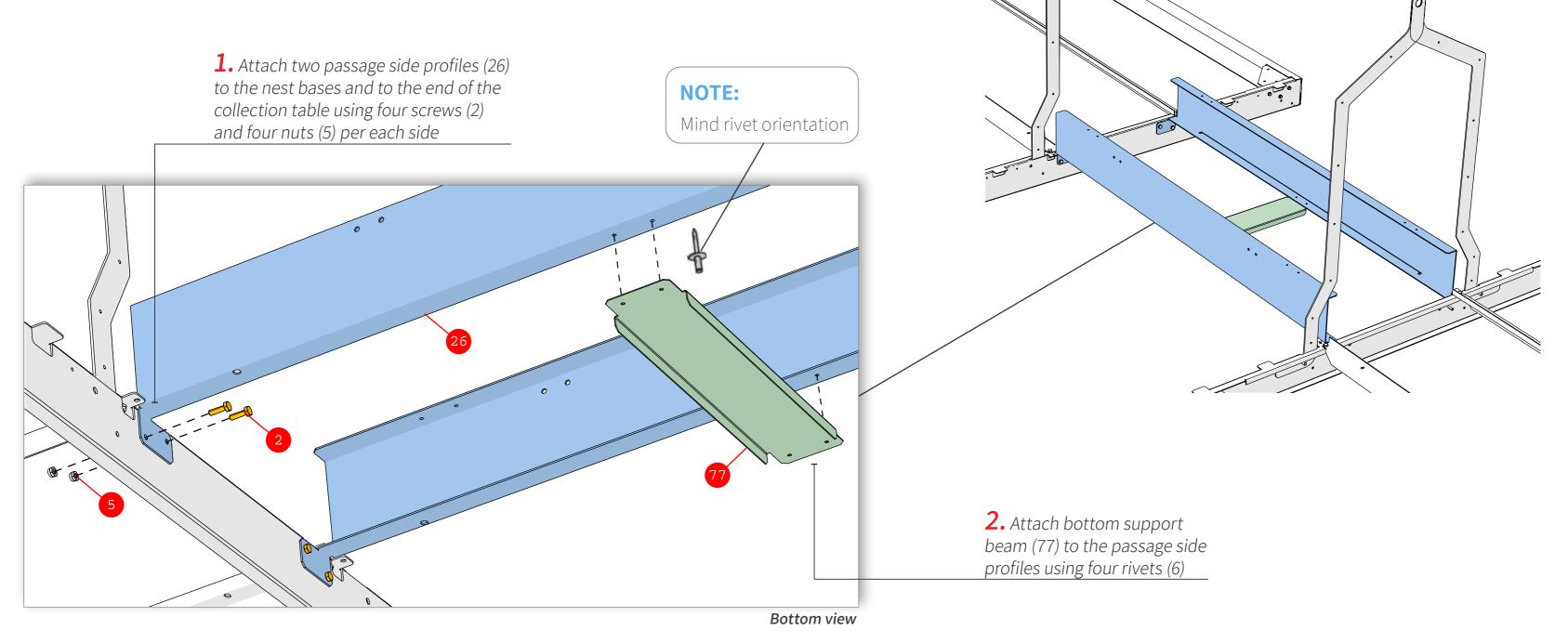






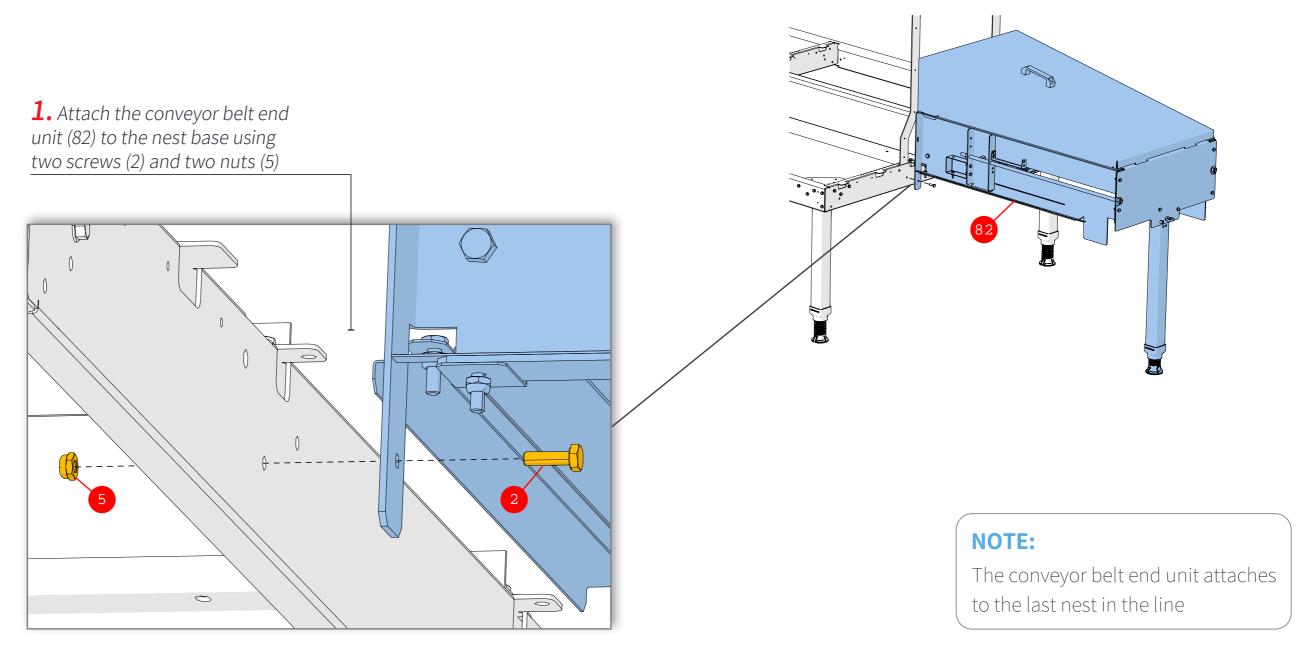


Step 6: Installing the Passage Profiles

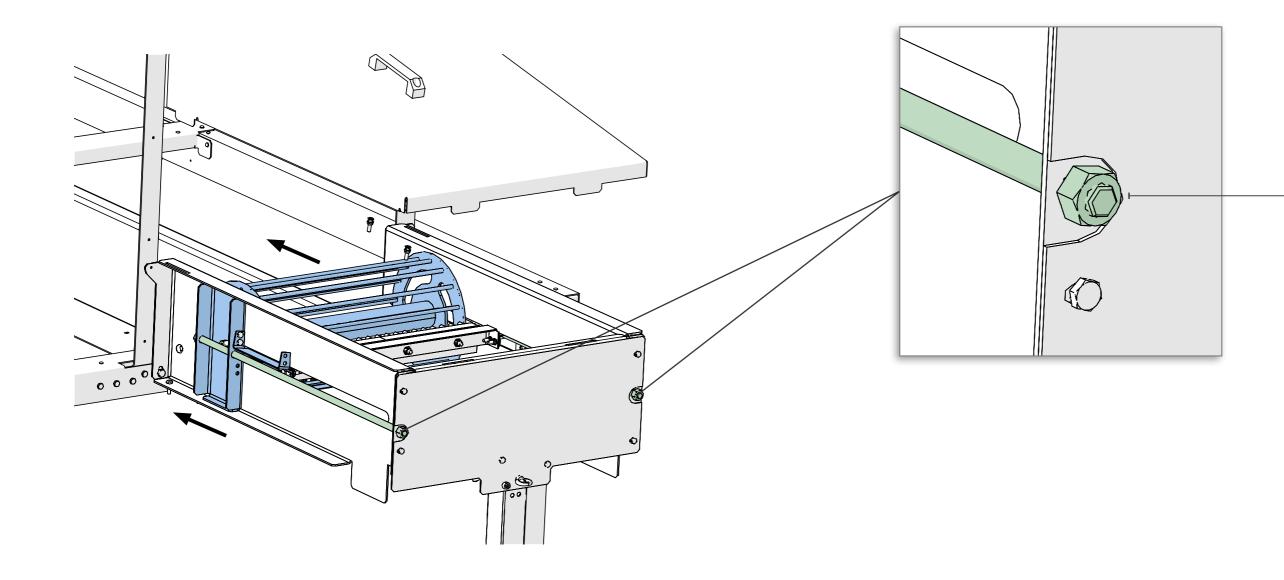




Step 7: Installing the Conveyor Belt End Unit



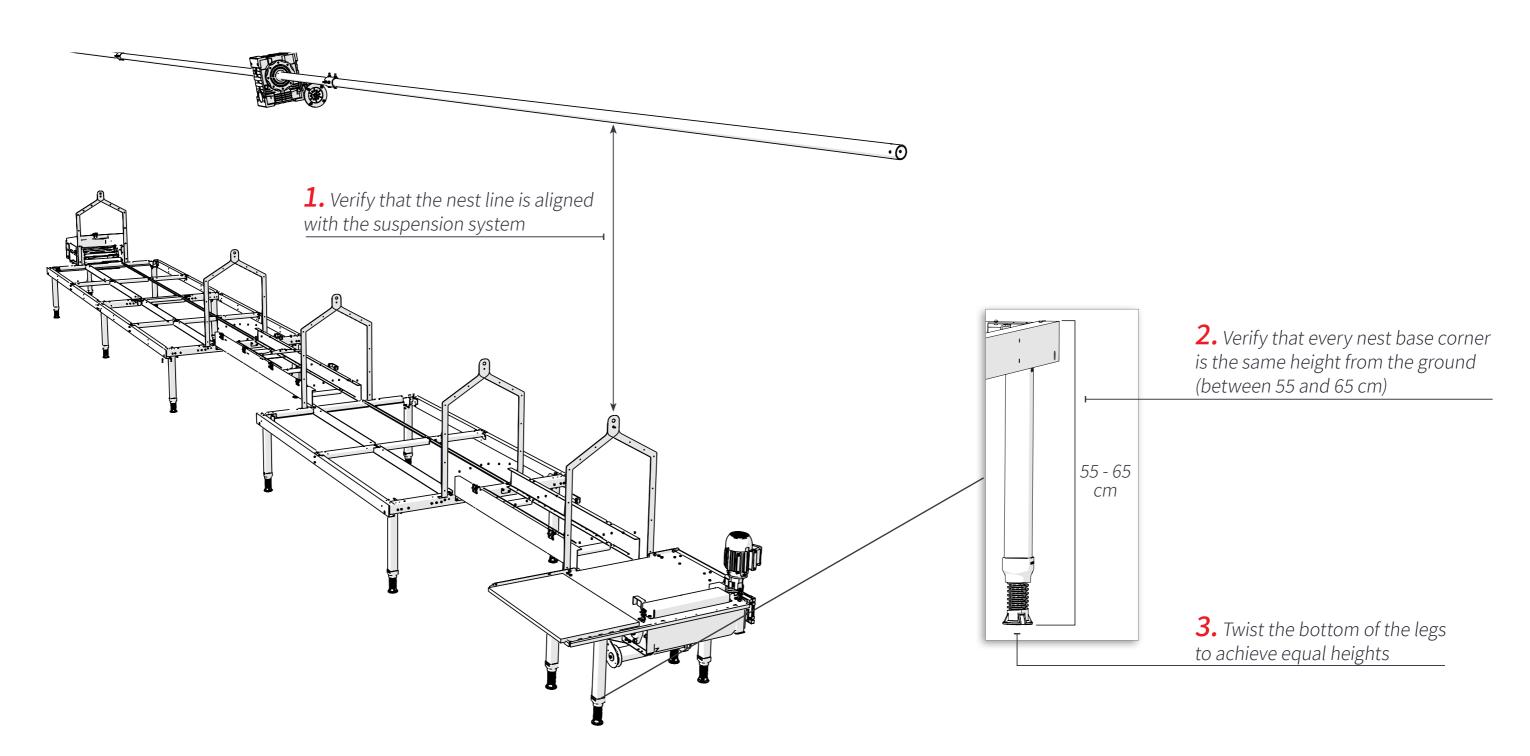




2. Loosen the two nuts on either side of the end unit and move the drum as close as possible to the nest base



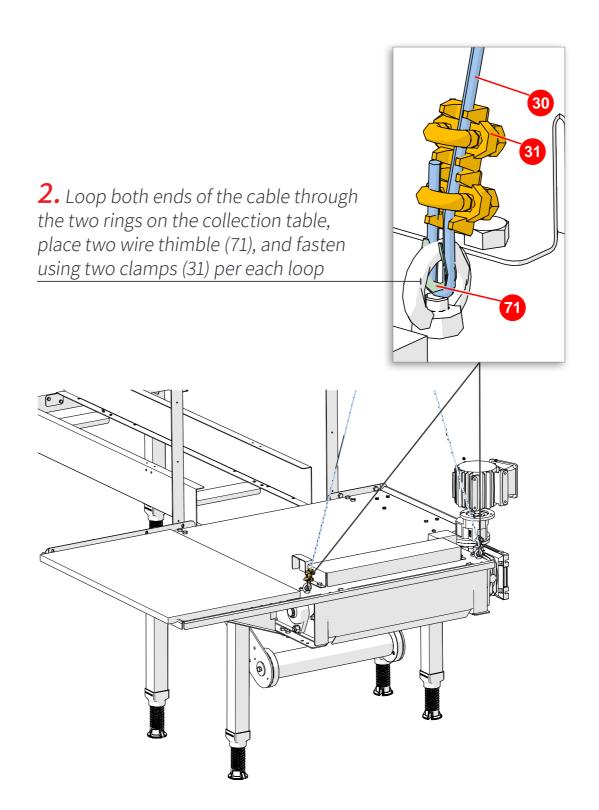
Step 8: Verifying Alignment and Height of Nest Line





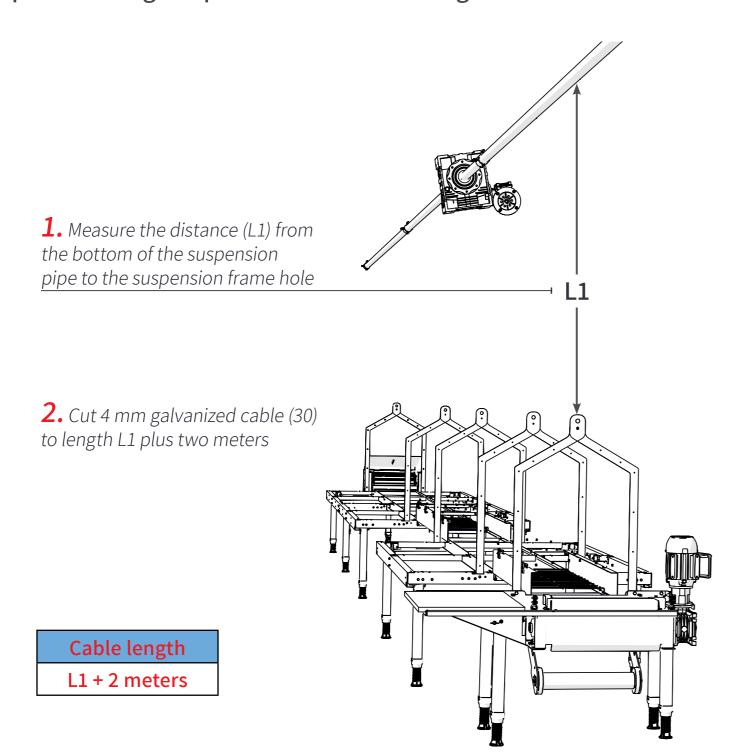
Step 9: Attaching a Cable to the Collection Table

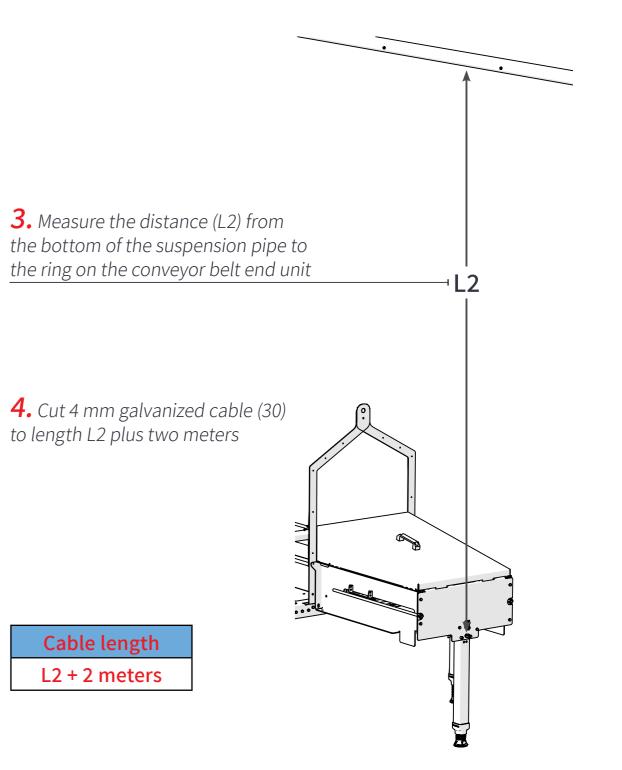
1. Cut 4 mm galvanized cable (30) to a length of 260 cm





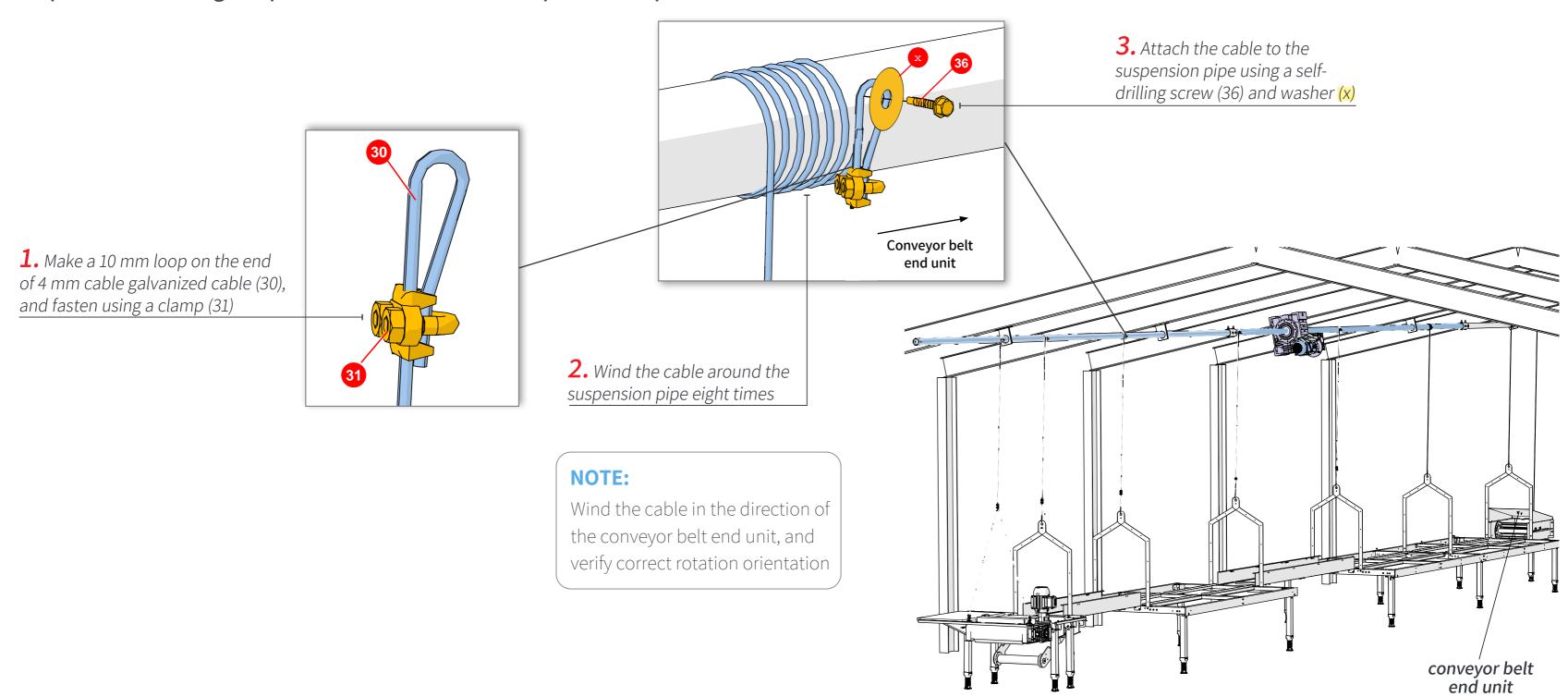
#### Step 10: Cutting Suspension Cables to Length



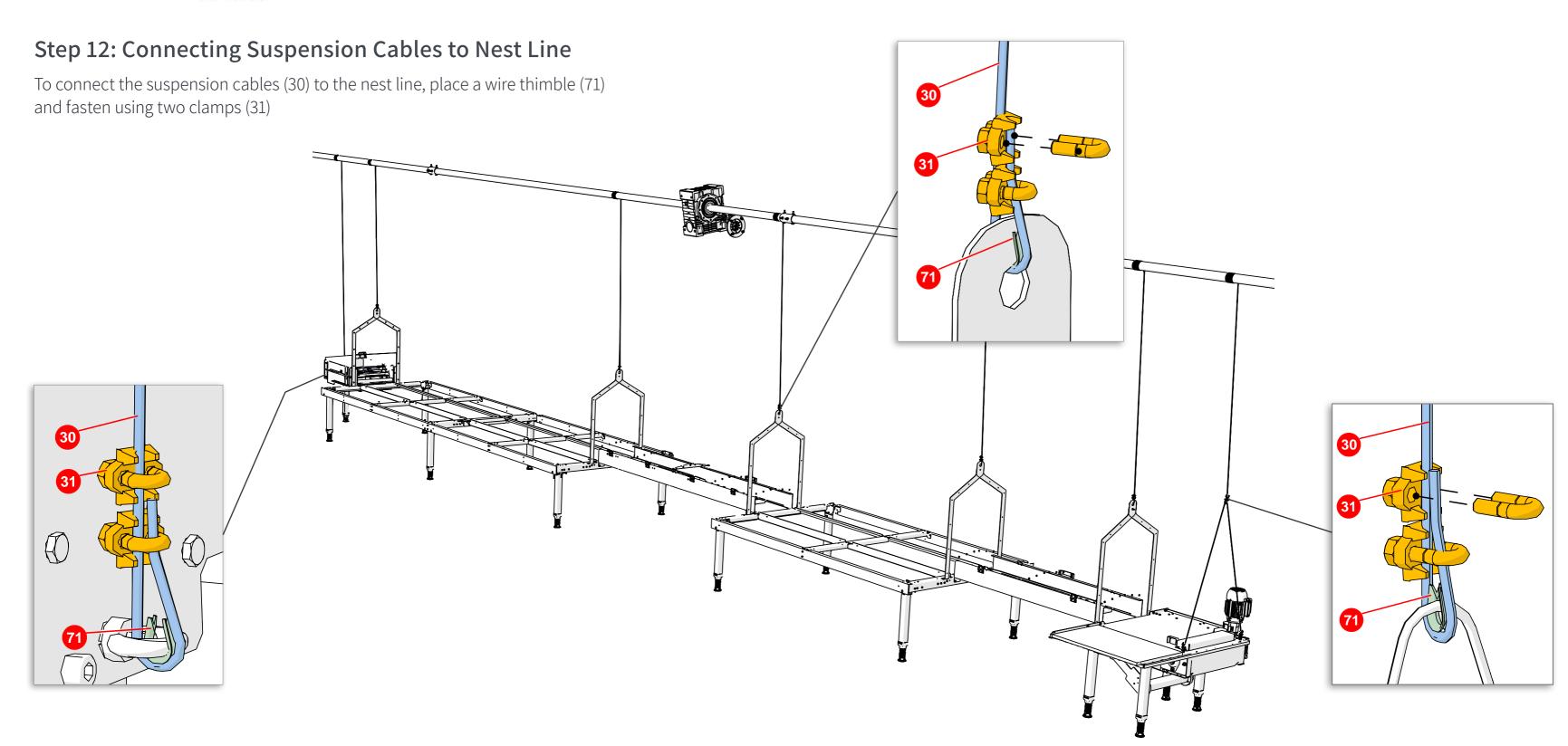




Step 11: Connecting Suspension Cables to the Suspension Pipes





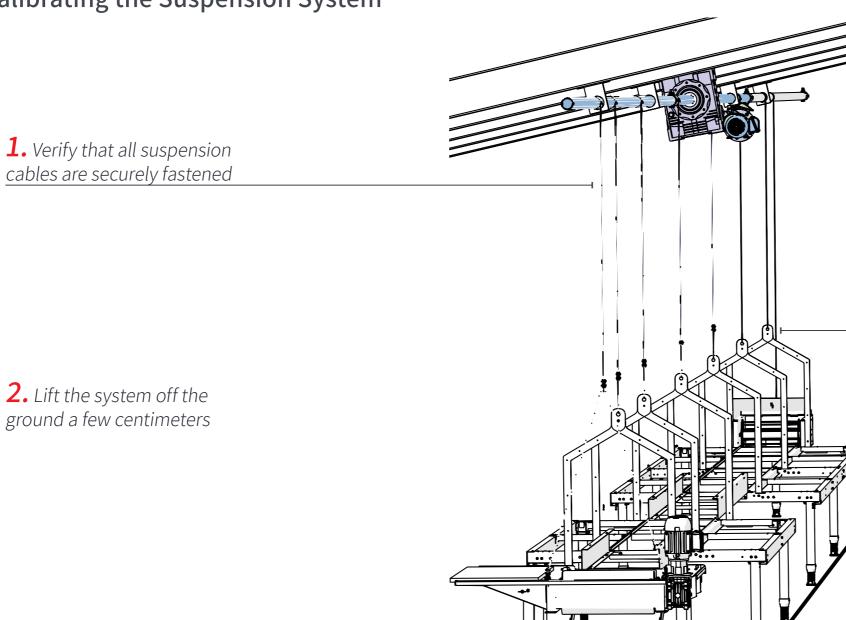




#### Step 13: Calibrating the Suspension System

**3.** Lower the system until the legs

are touching the ground



**4.** Tighten any slack wires

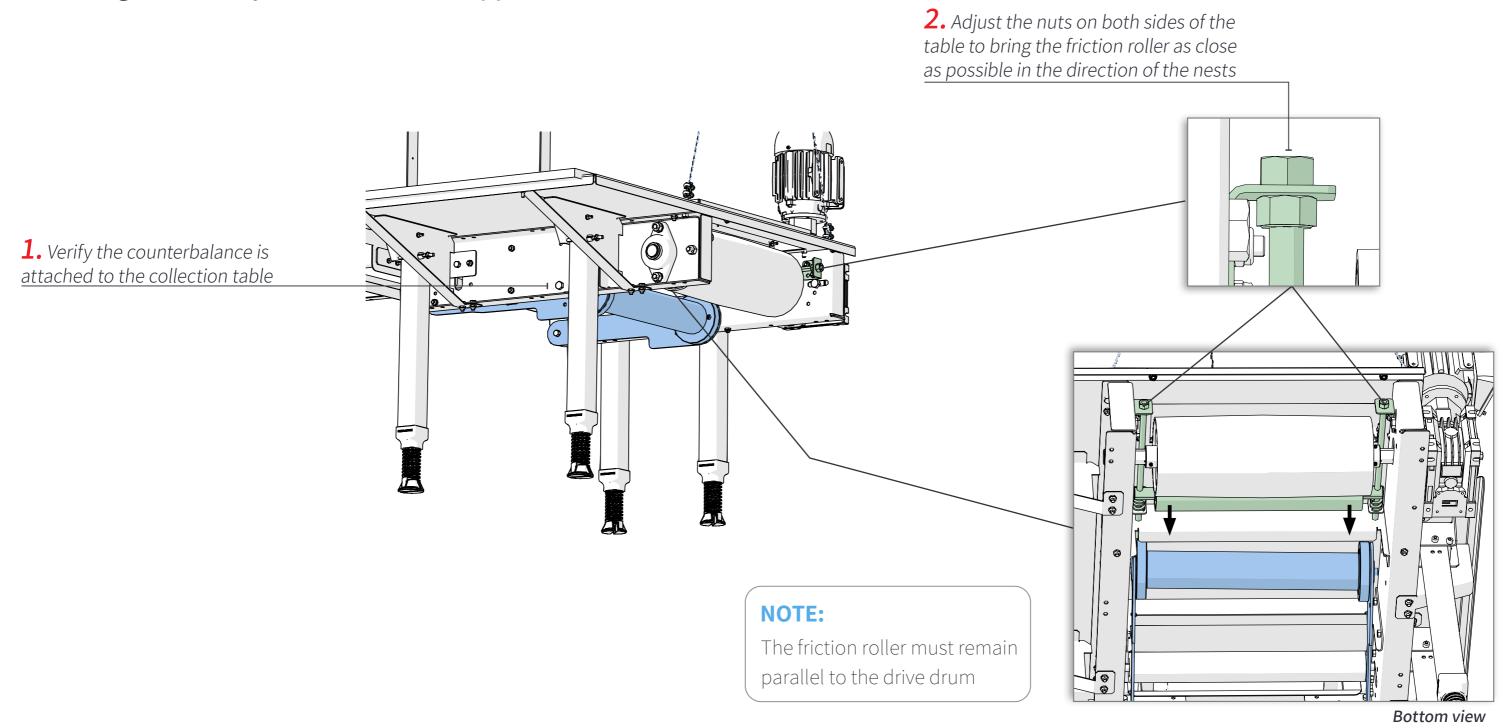
**5.** Verify that the collection table, bases, and end unit are in line with each other

# ! CAUTION

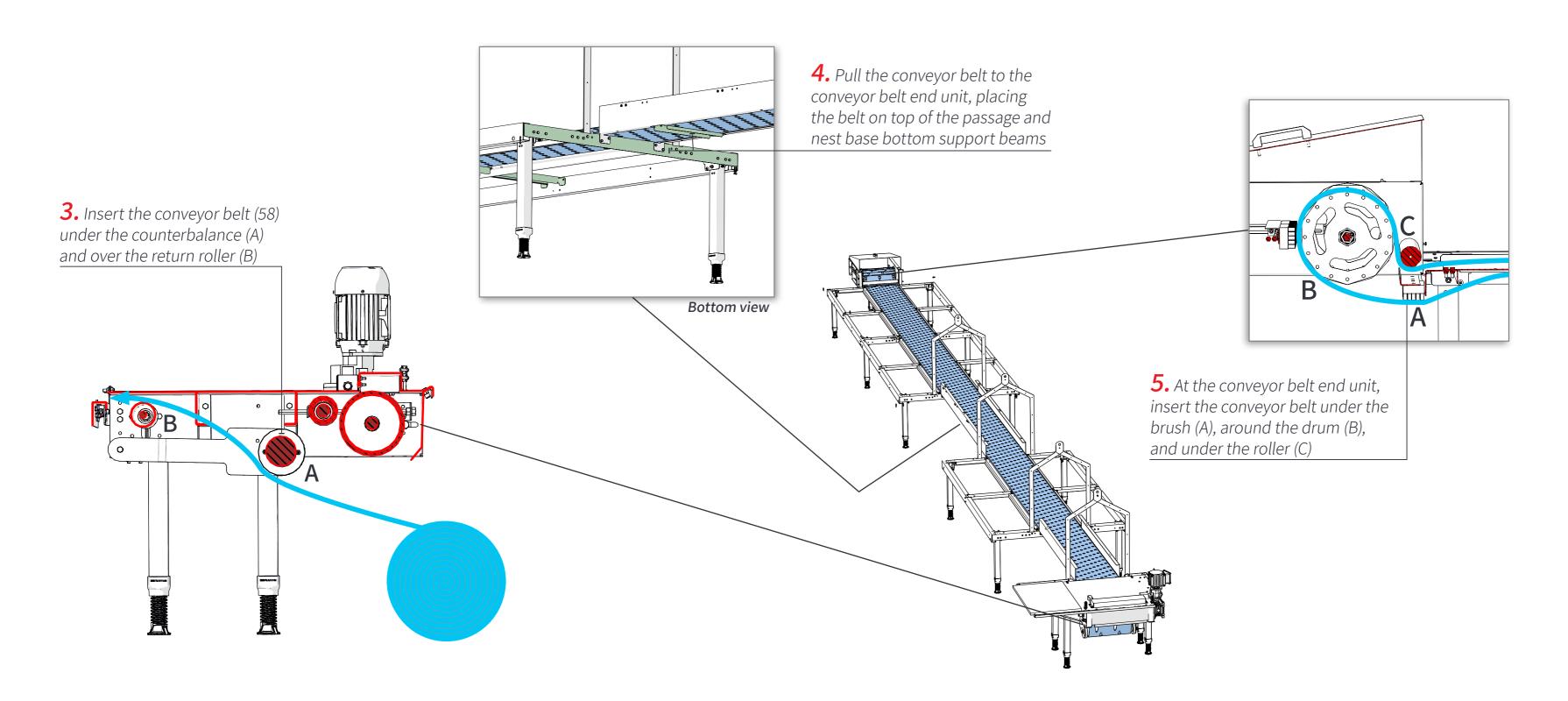
The suspension system is controlled manually and does not have an automatic stop. Keep eye contact with the system at all times while operating the suspension mechanism, and make sure to stop operating the motor once the legs have reached the ground.



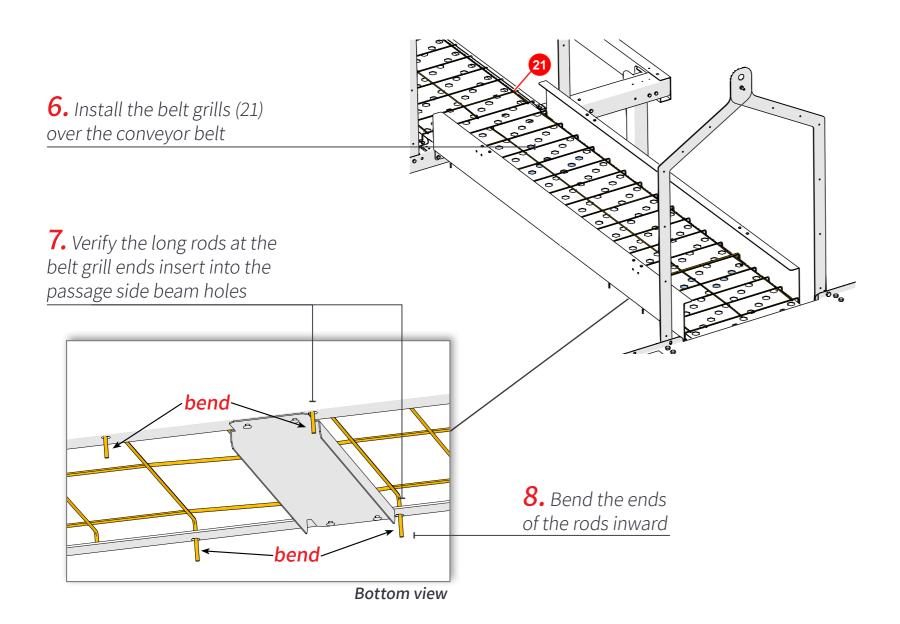
Step 14: Inserting the Conveyor Belt and Belt Support Grids

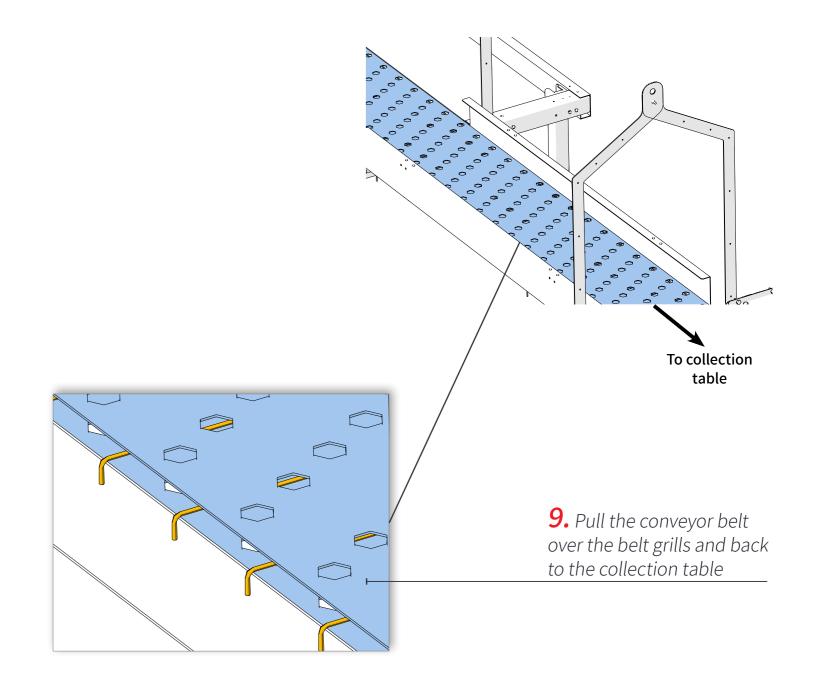




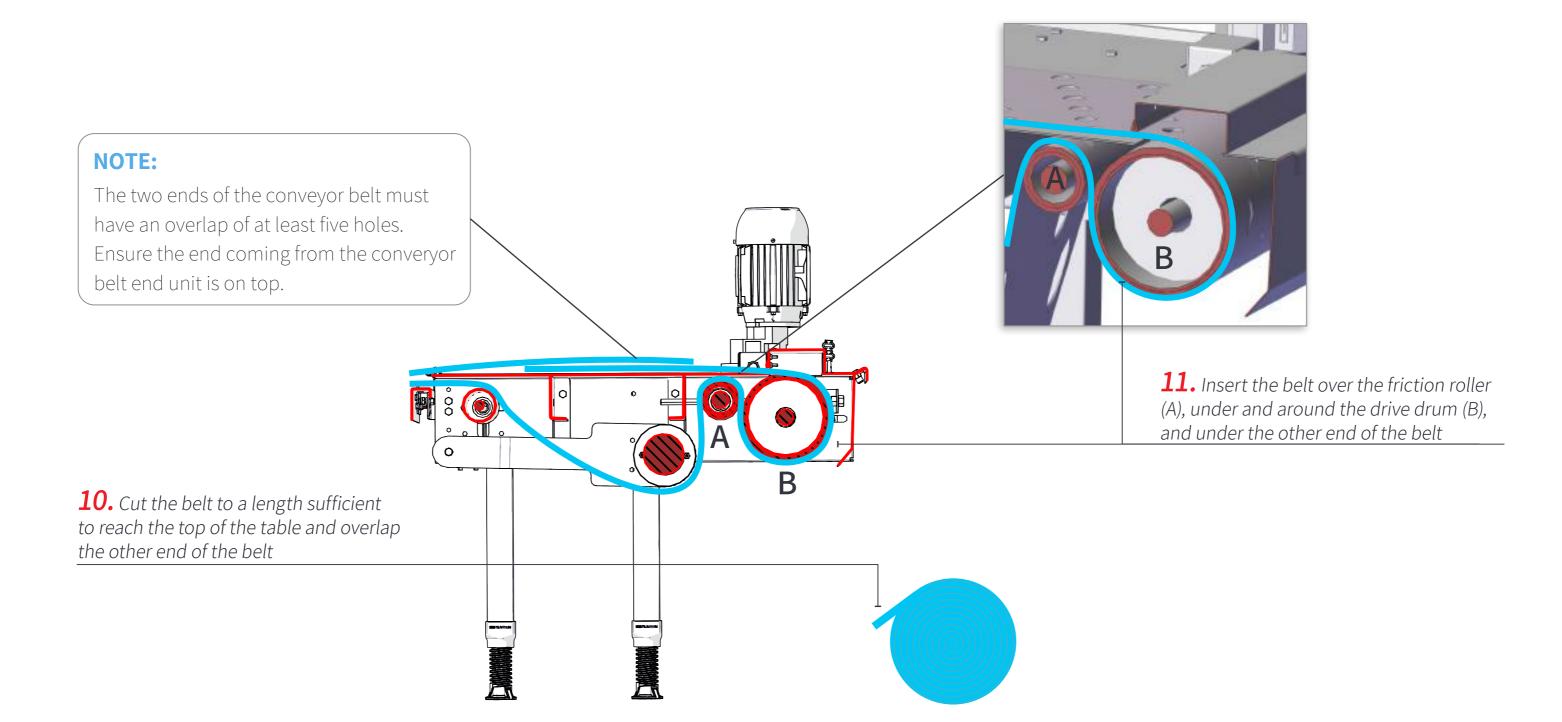






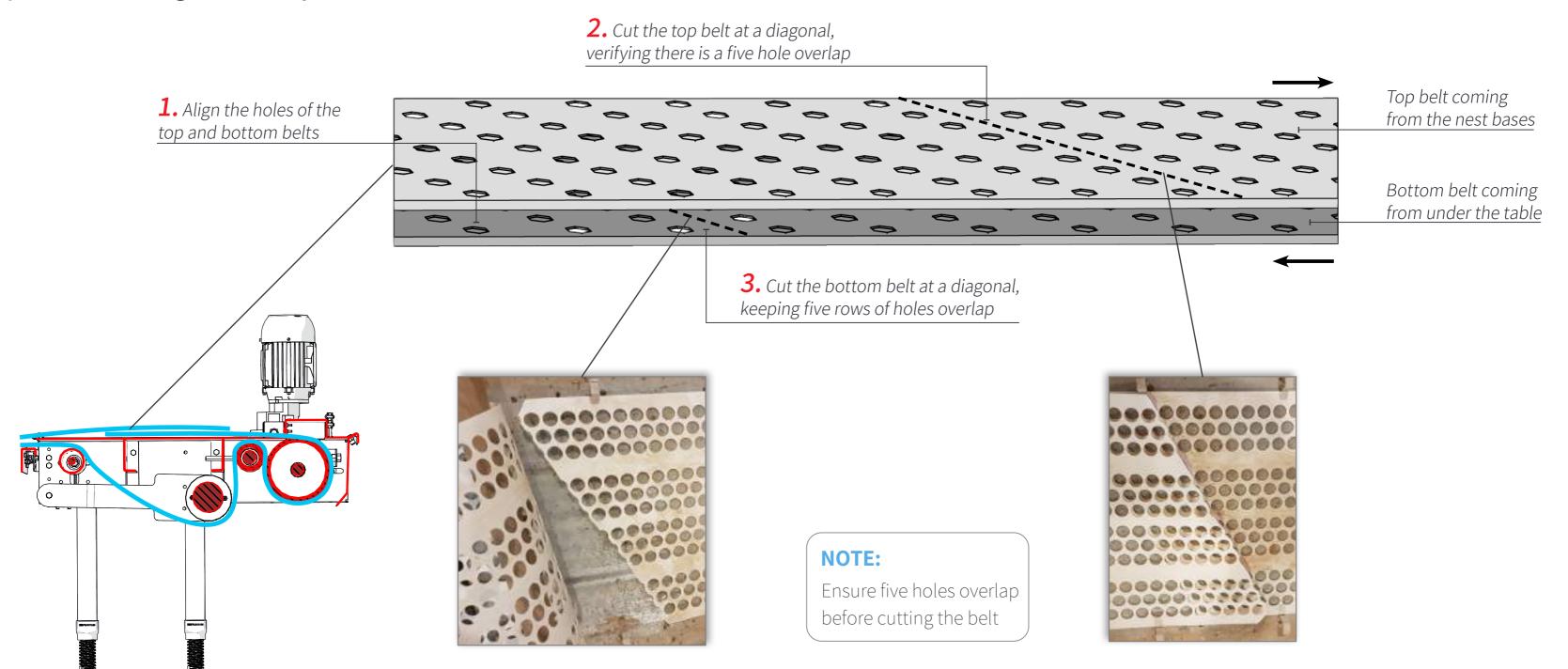






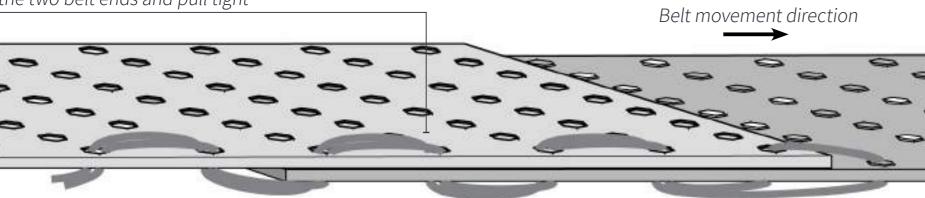


Step 15: Connecting the Conveyor Belt Ends



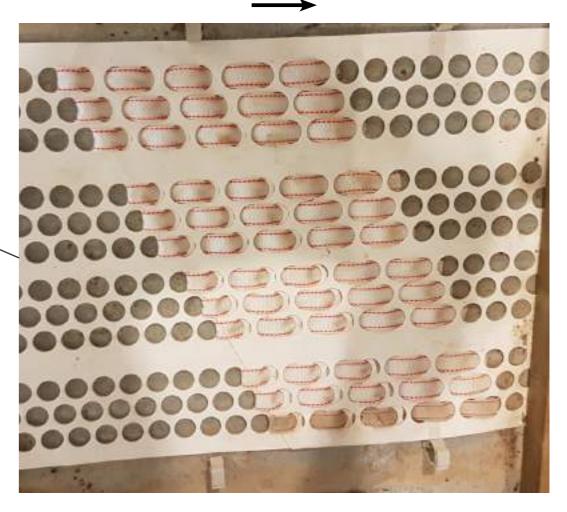


**4.** Weave 60 cm of string (73) through the two belt ends and pull tight



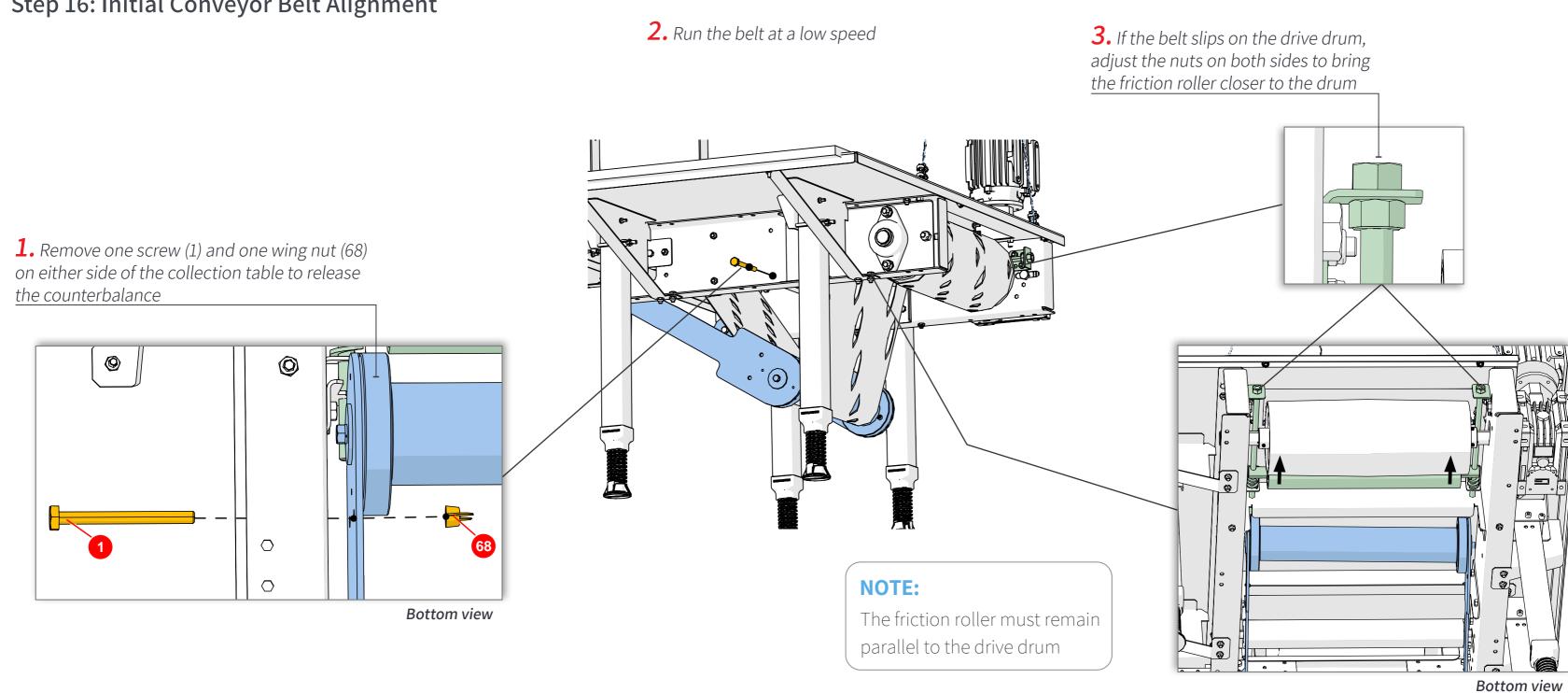
**5.** Repeat the weave across all rows

Belt movement direction





Step 16: Initial Conveyor Belt Alignment

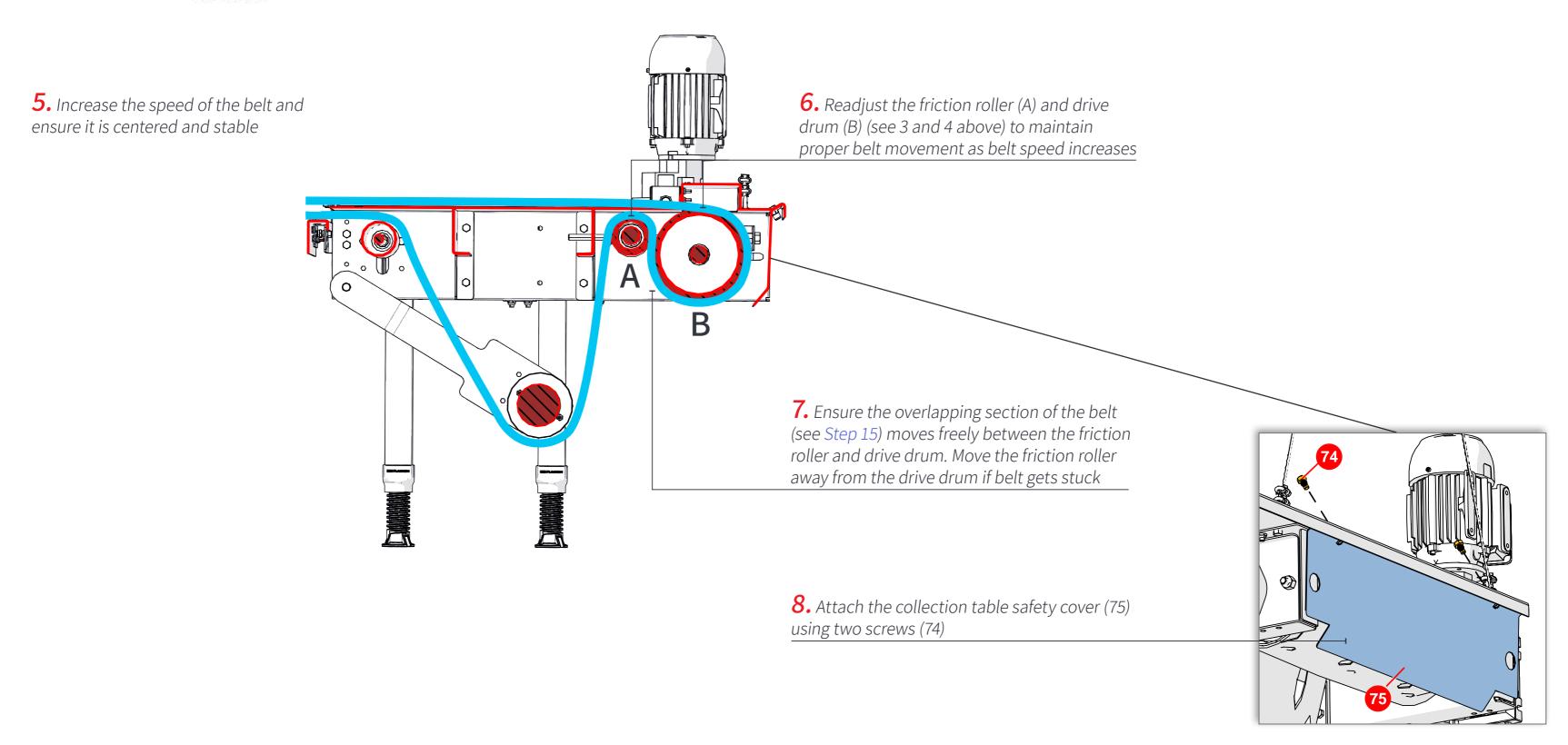




drive drum position by either creating more tension on the side the belt is veering to or releasing tension on the other side To adjust the drive drum on either side of the table, release the nut (A) and adjust the nuts and screw (B) 0 A **NOTE:** Once the adjustment has been made, retighten the nut (A) to Side view Side view secure the drive drum

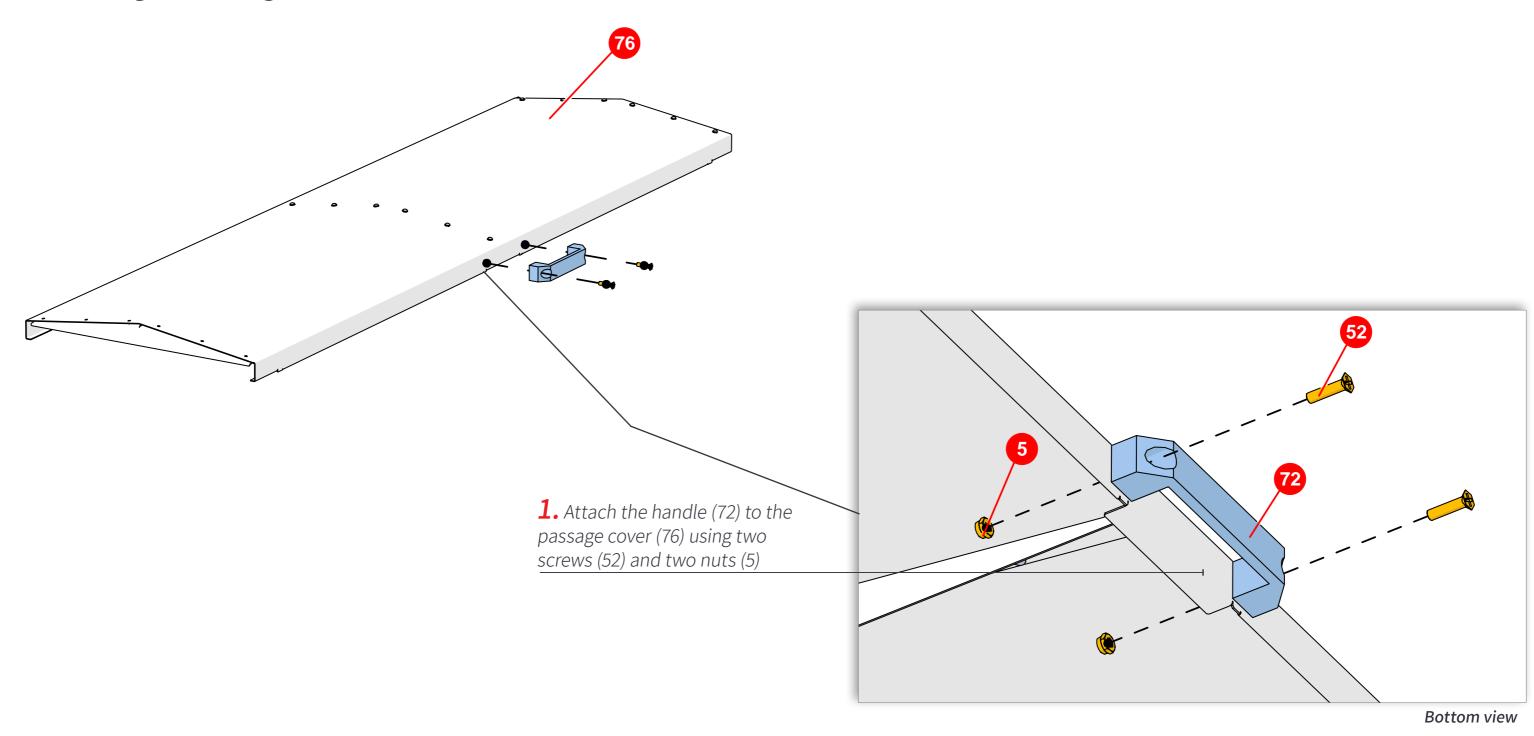
**4.** If the belt veers to one side, adjust the



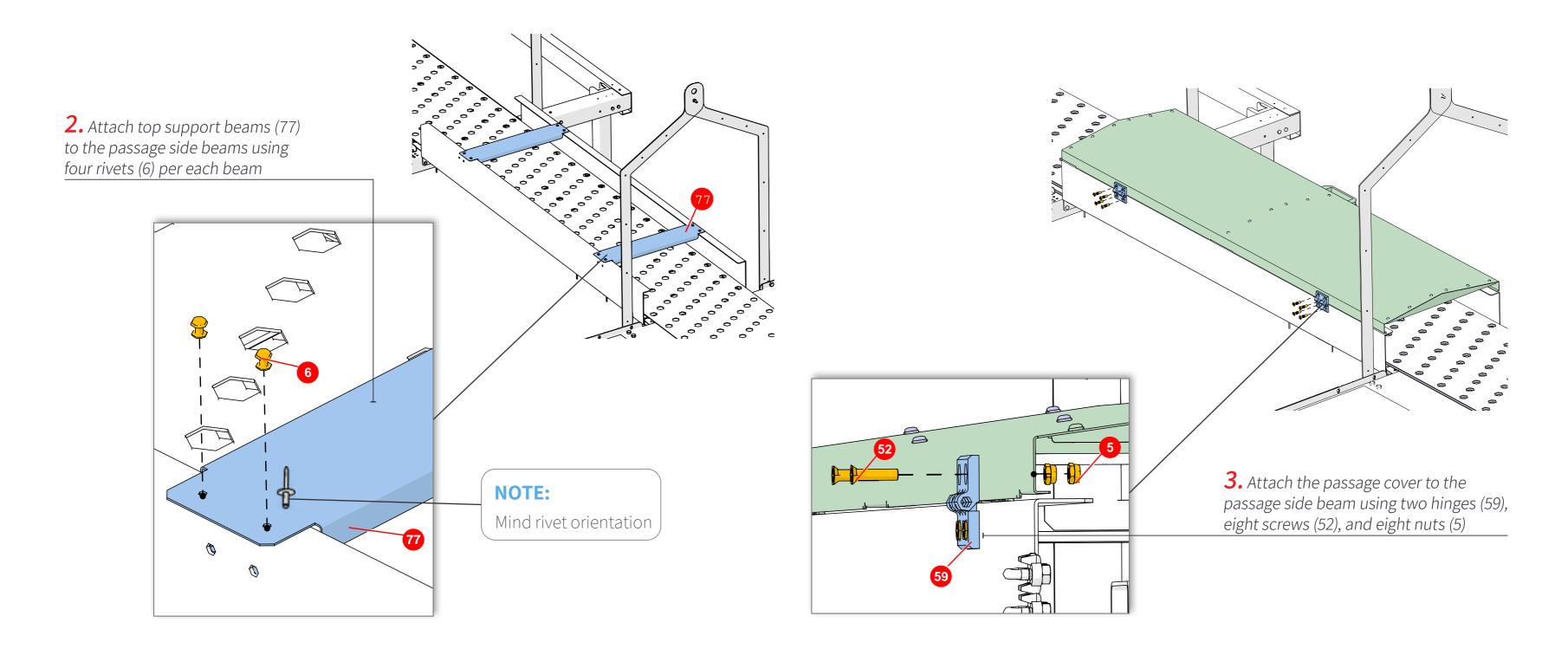




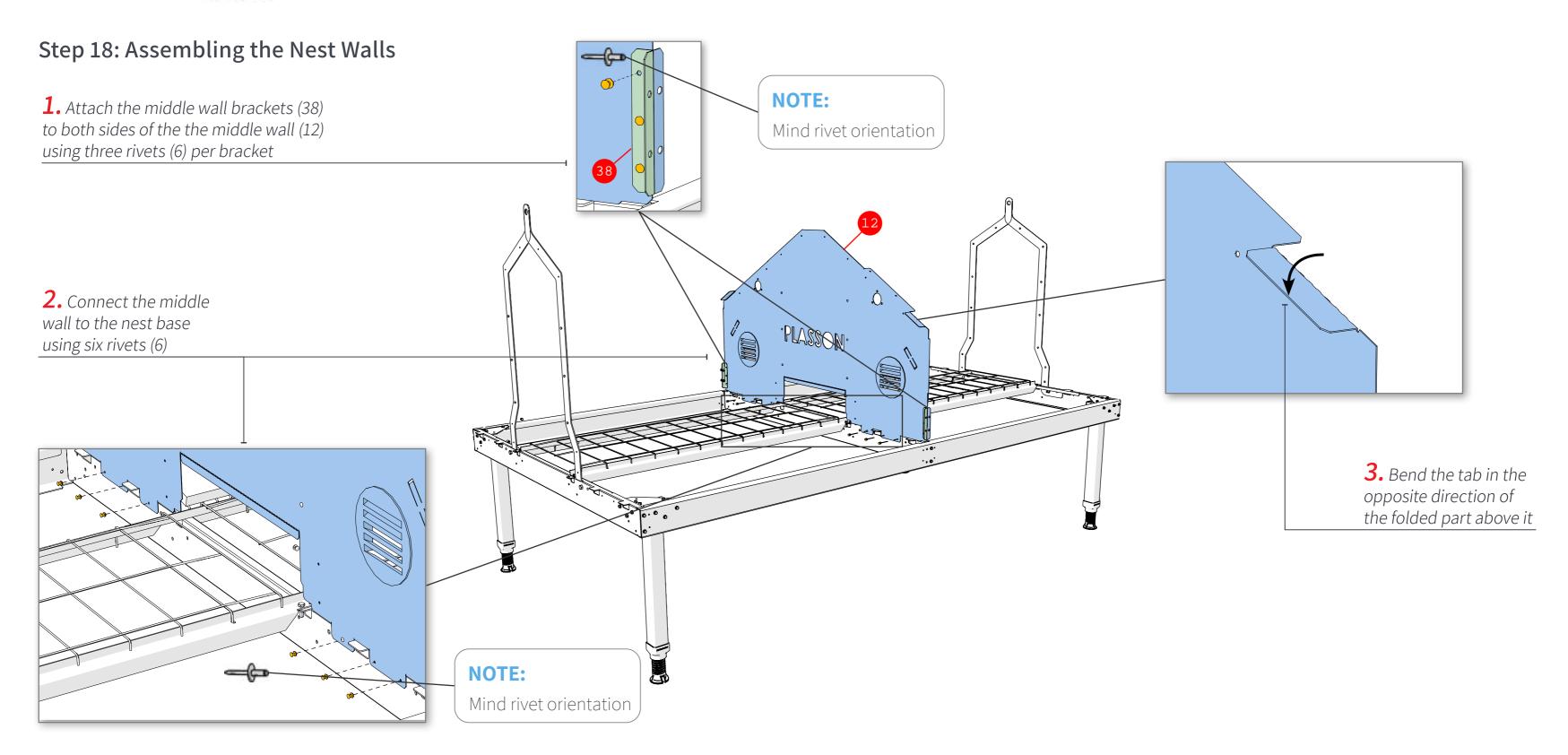
Step 17: Installing the Passage Covers



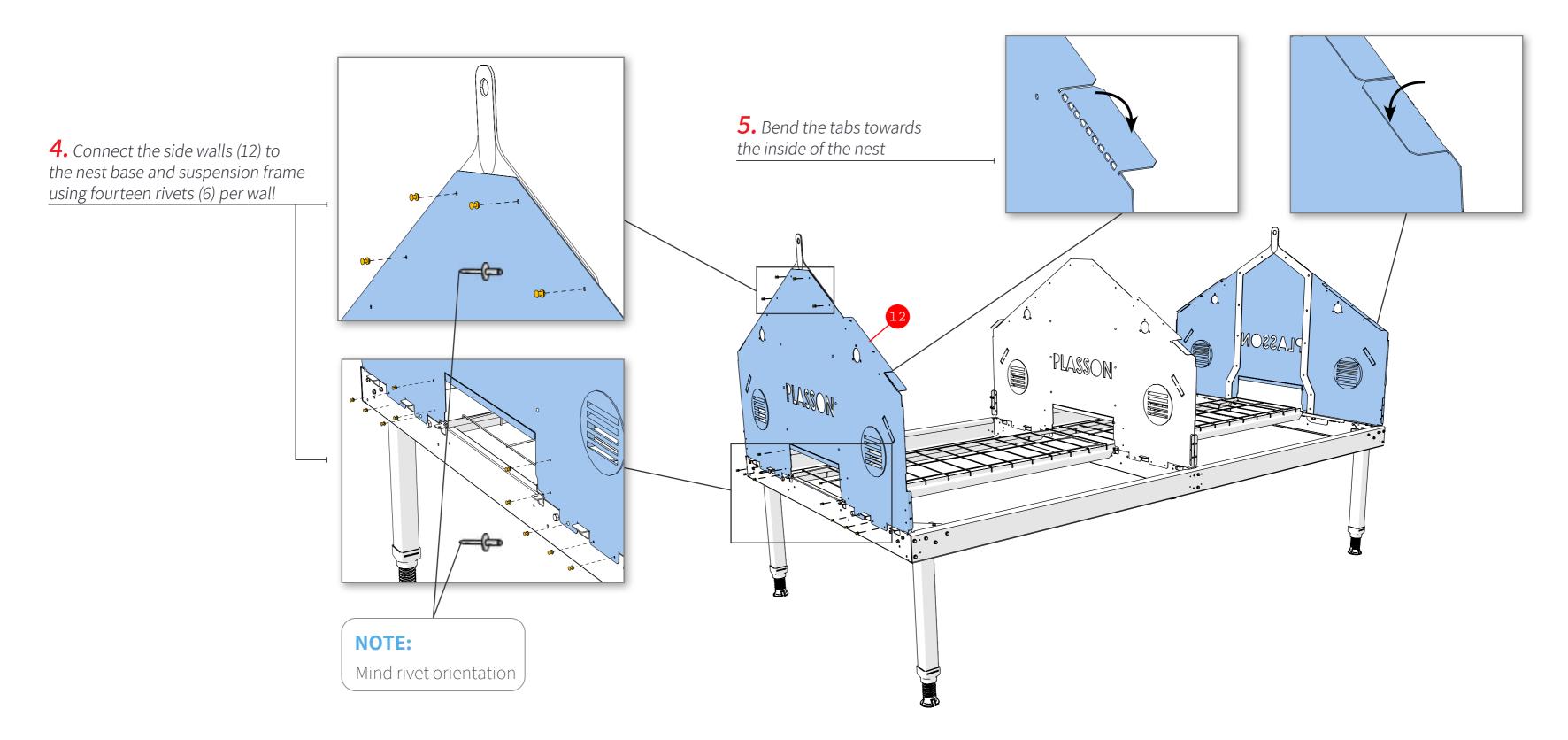






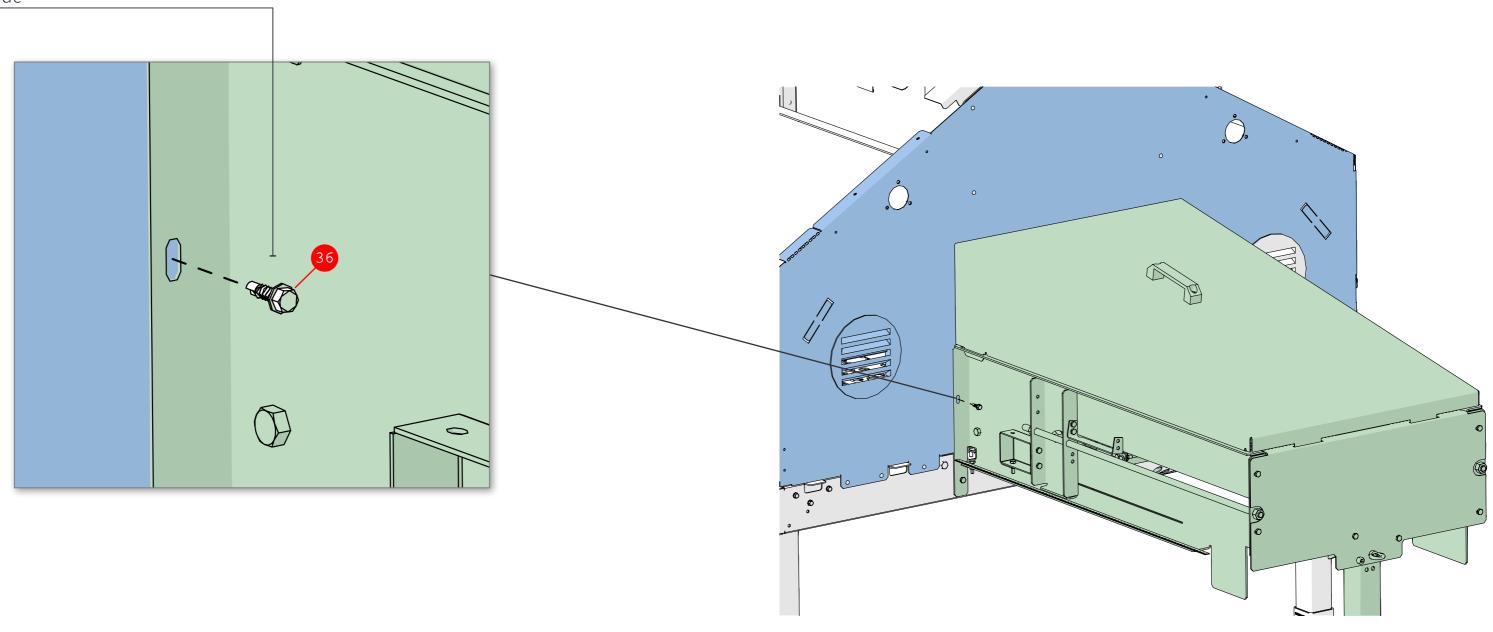






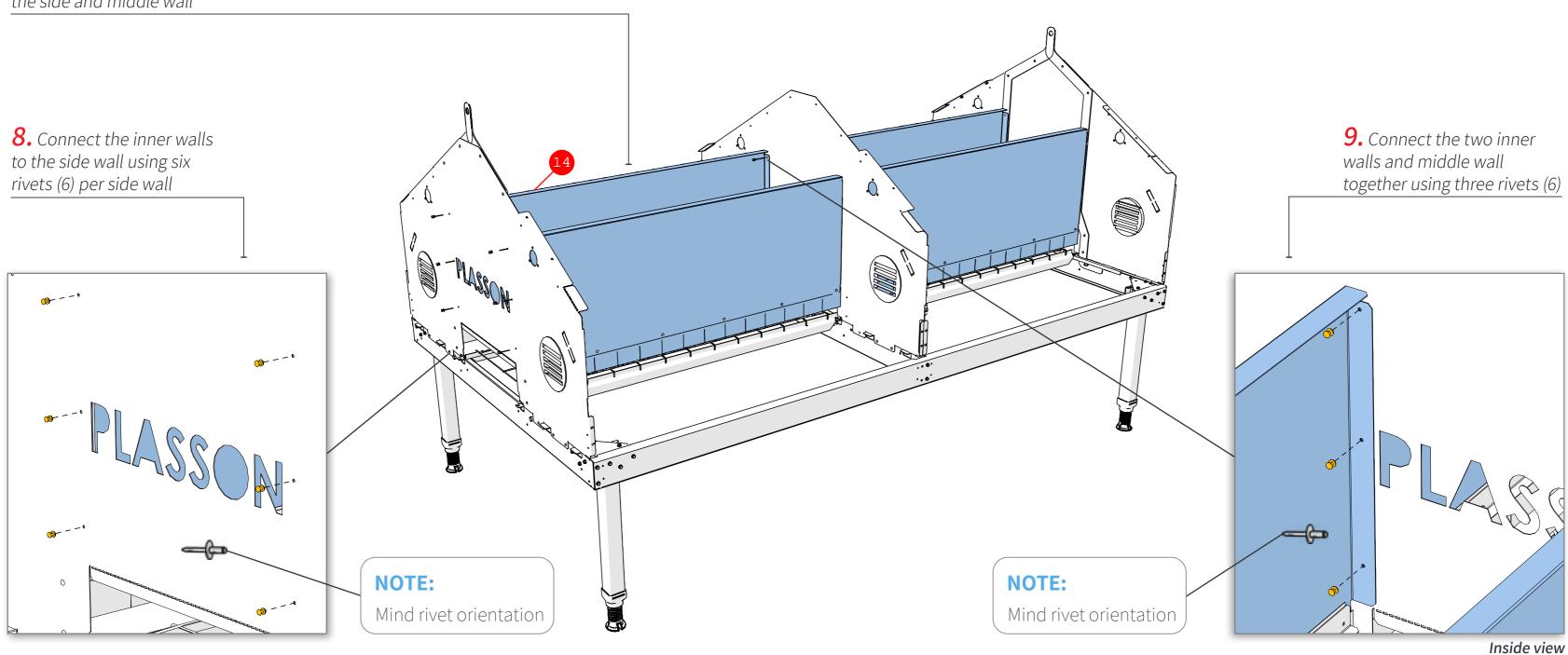


**6.** Attach the end unit to the side wall of the last nest using one self-drilling screw (36) on each side





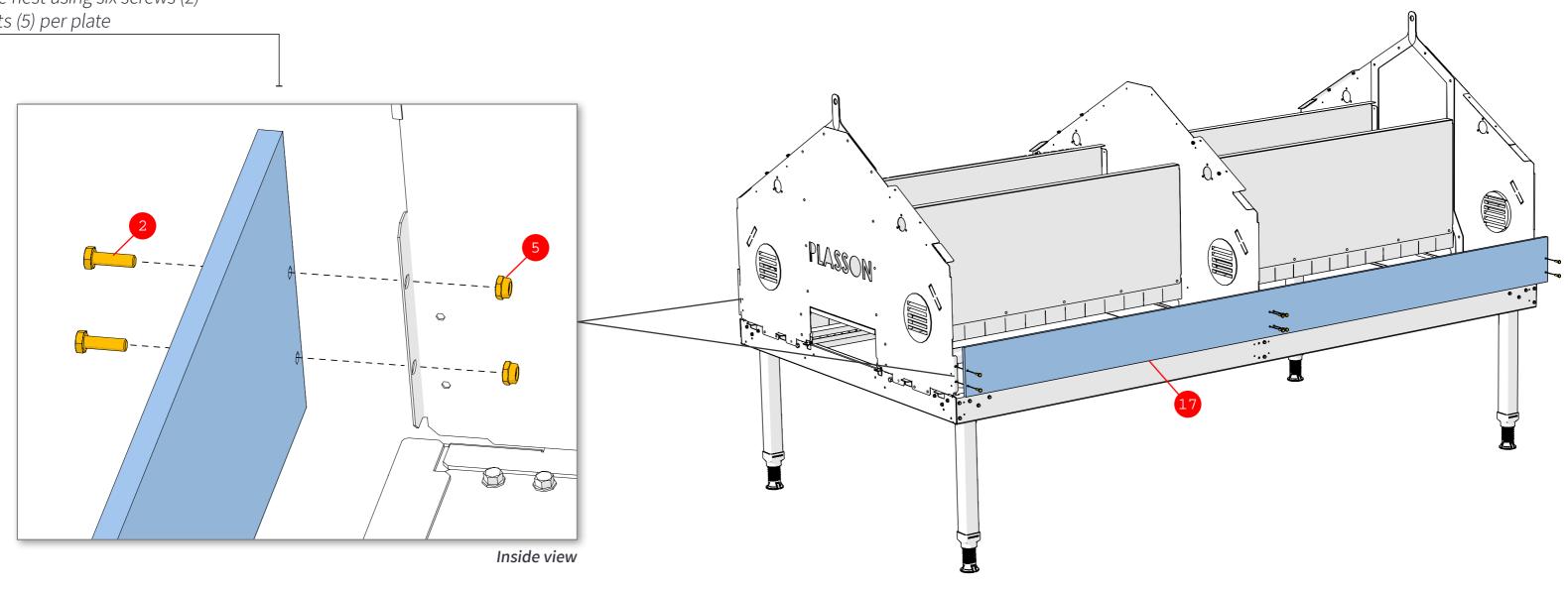
**7.** Place the inner walls (14) between the side and middle wall



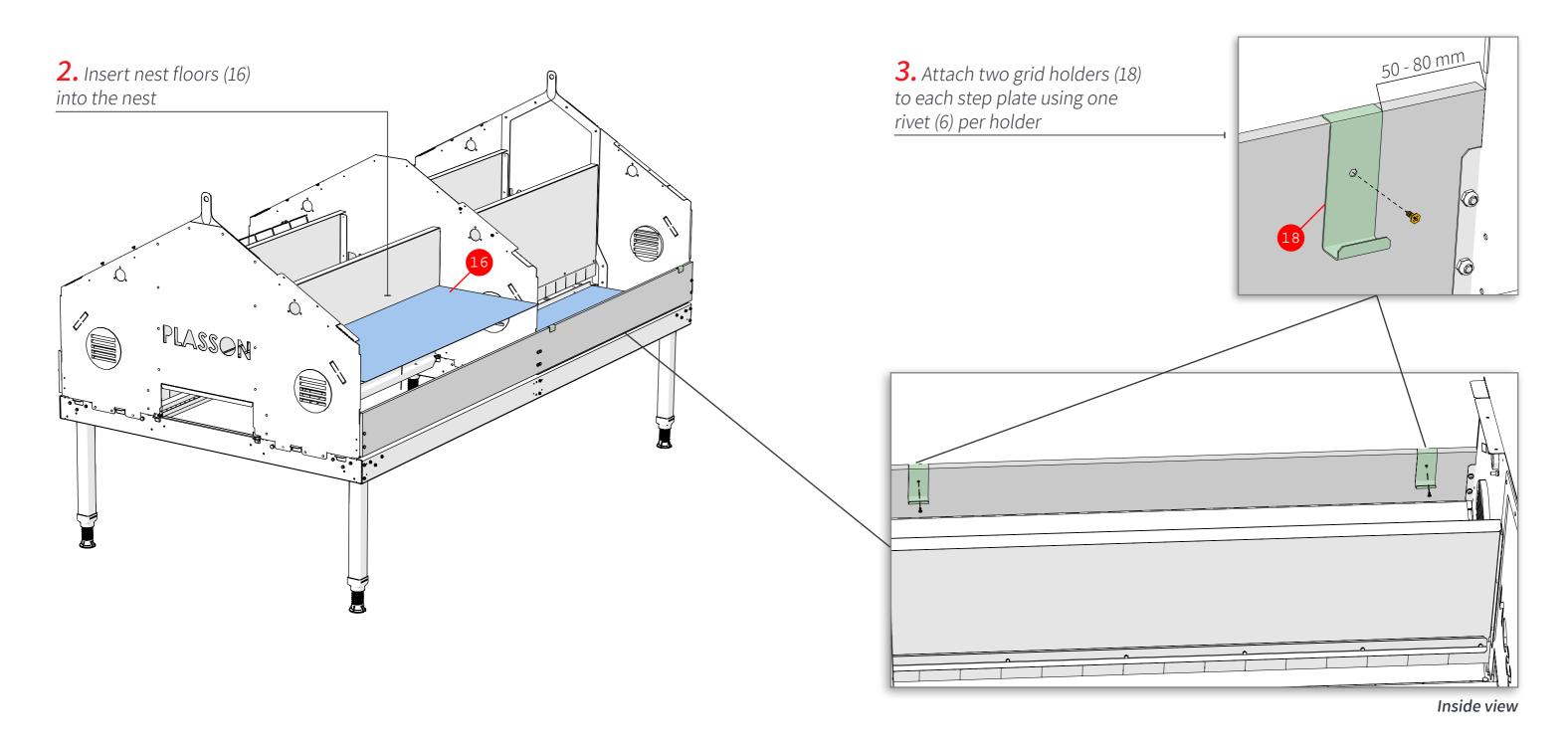


## Step 19: Inserting the Nest Floor Components

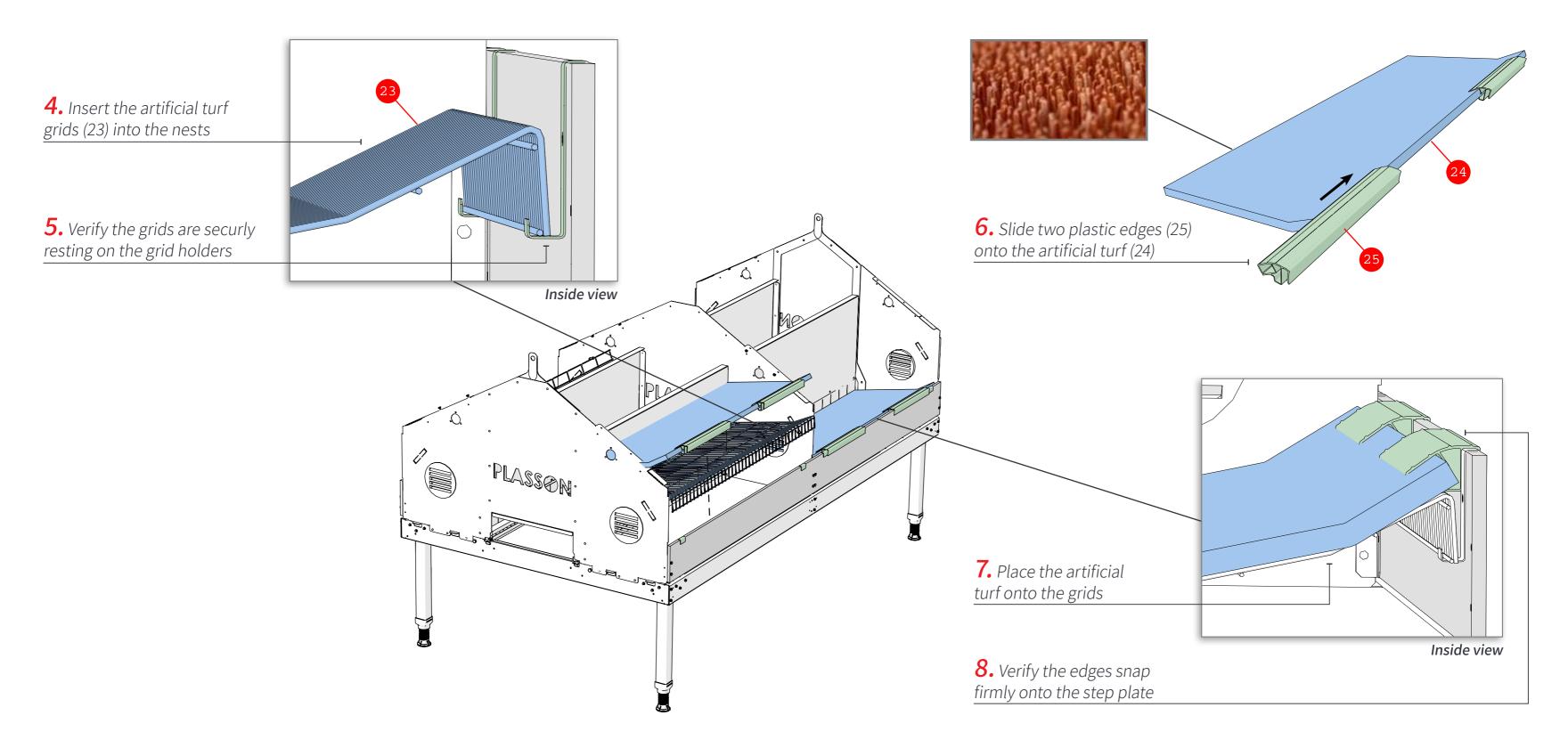
**1.** Attach step plates (17) to both sides of the nest using six screws (2) and six nuts (5) per plate







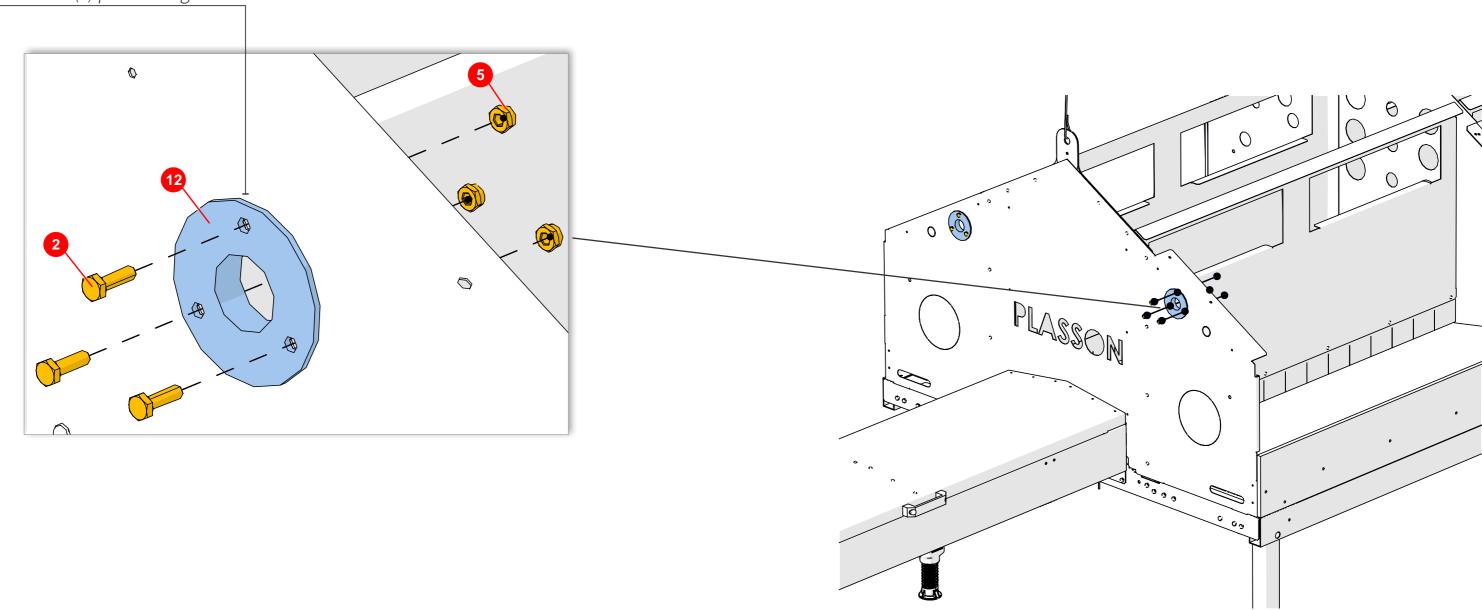




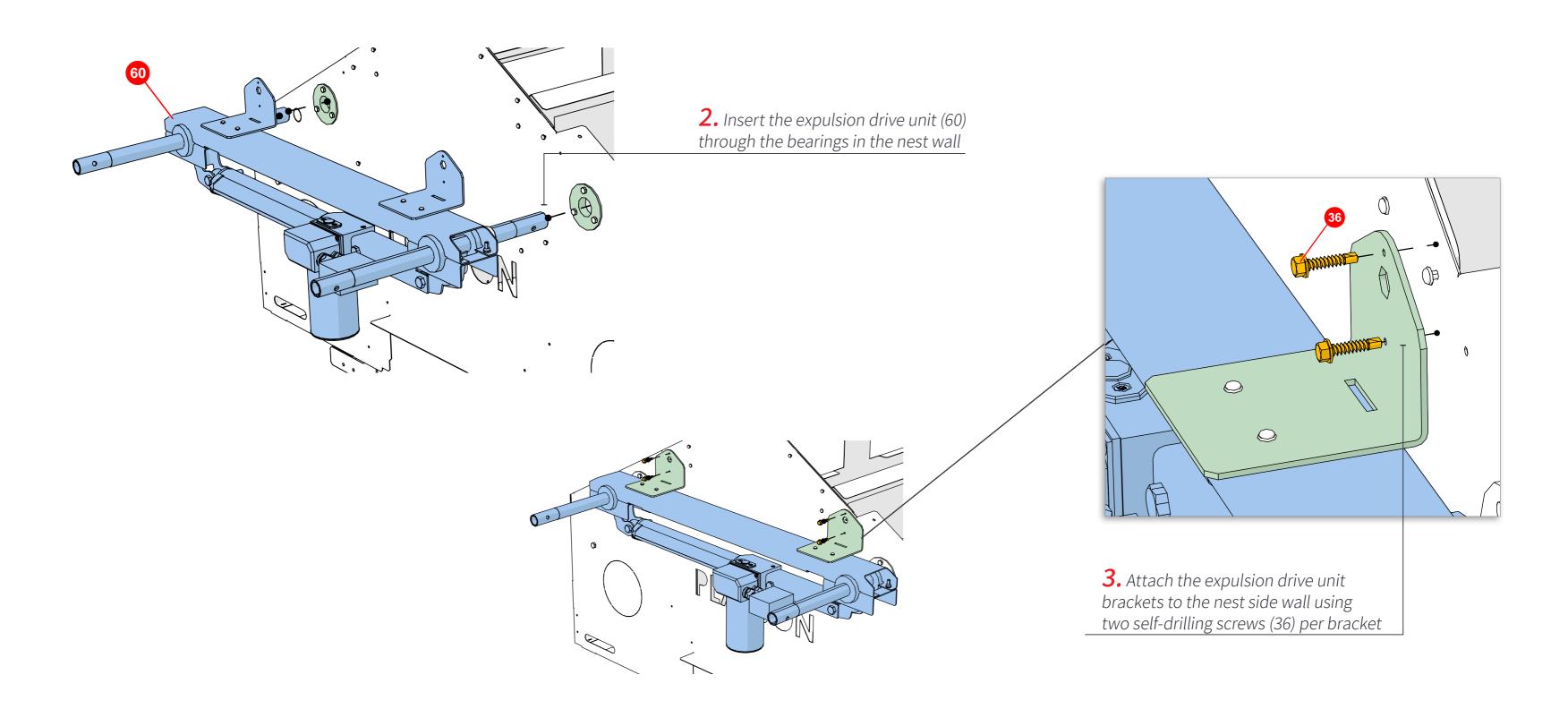


## Step 20: Installing the Expulsion Drive Unit

1. Attach two bearings (12) to each nest side wall using three screws (2) and three nuts (5) per bearing

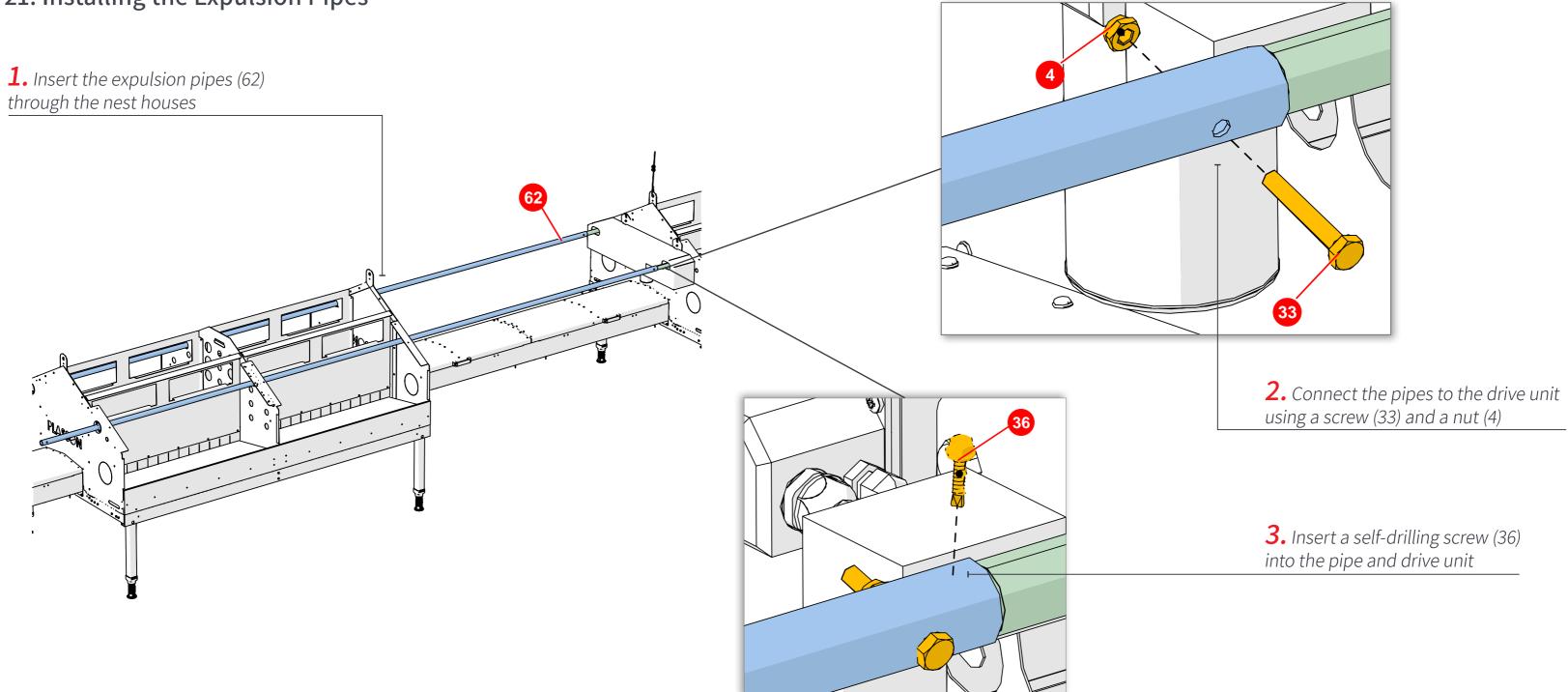






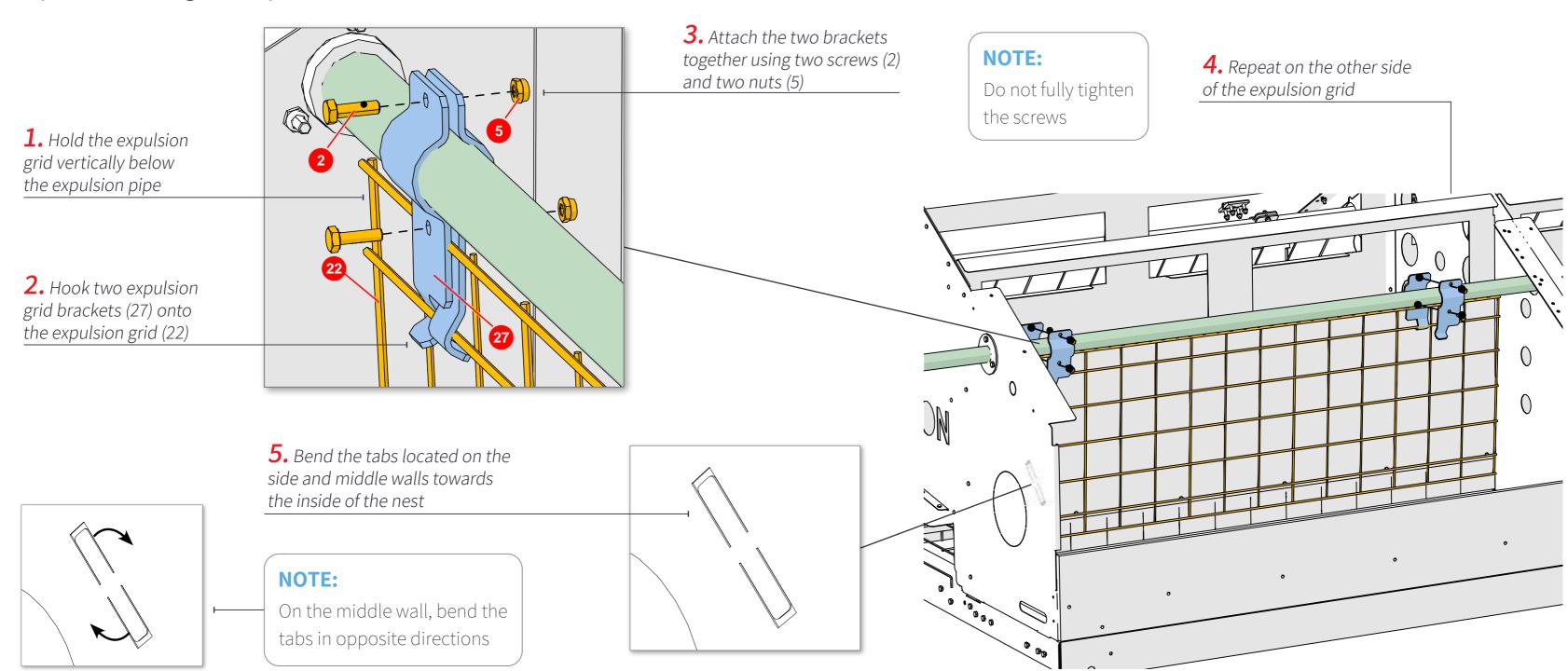


## Step 21: Installing the Expulsion Pipes



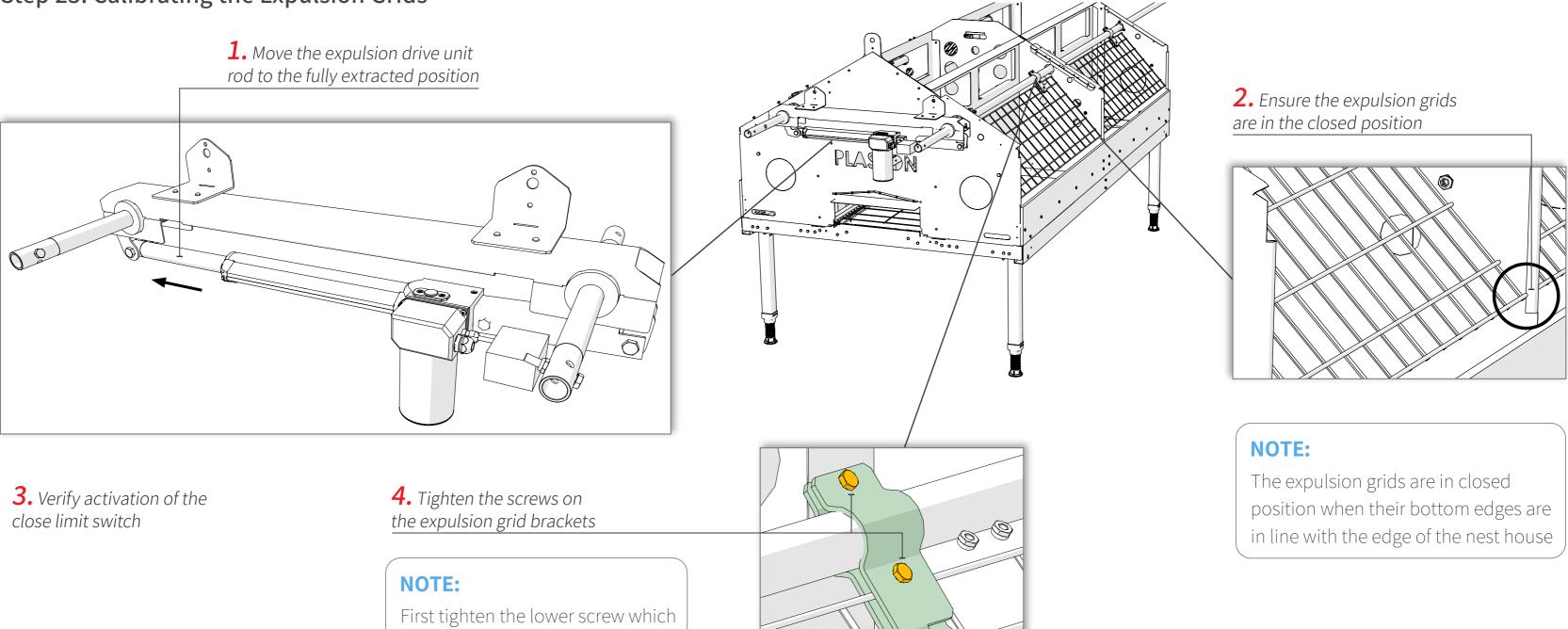


Step 22: Installing the Expulsion Grids





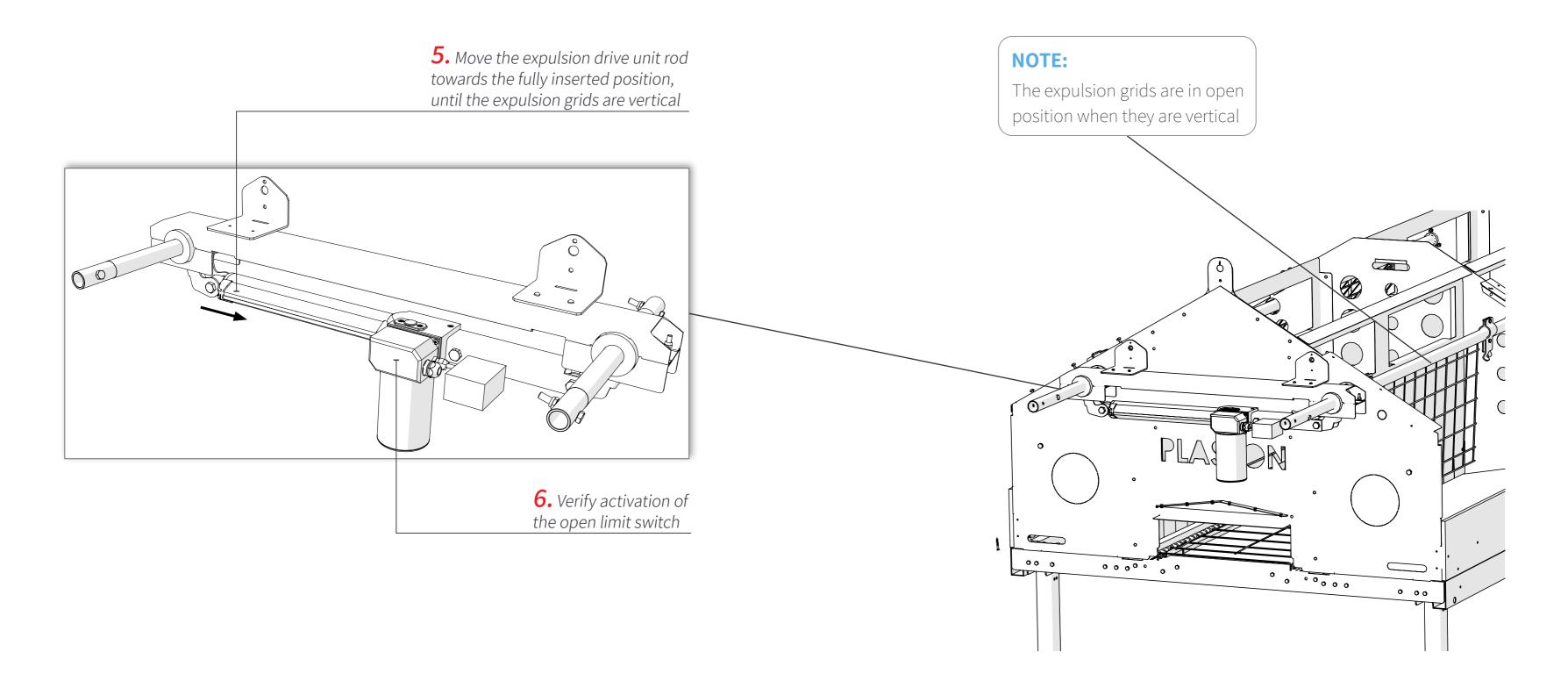
Step 23: Calibrating the Expulsion Grids



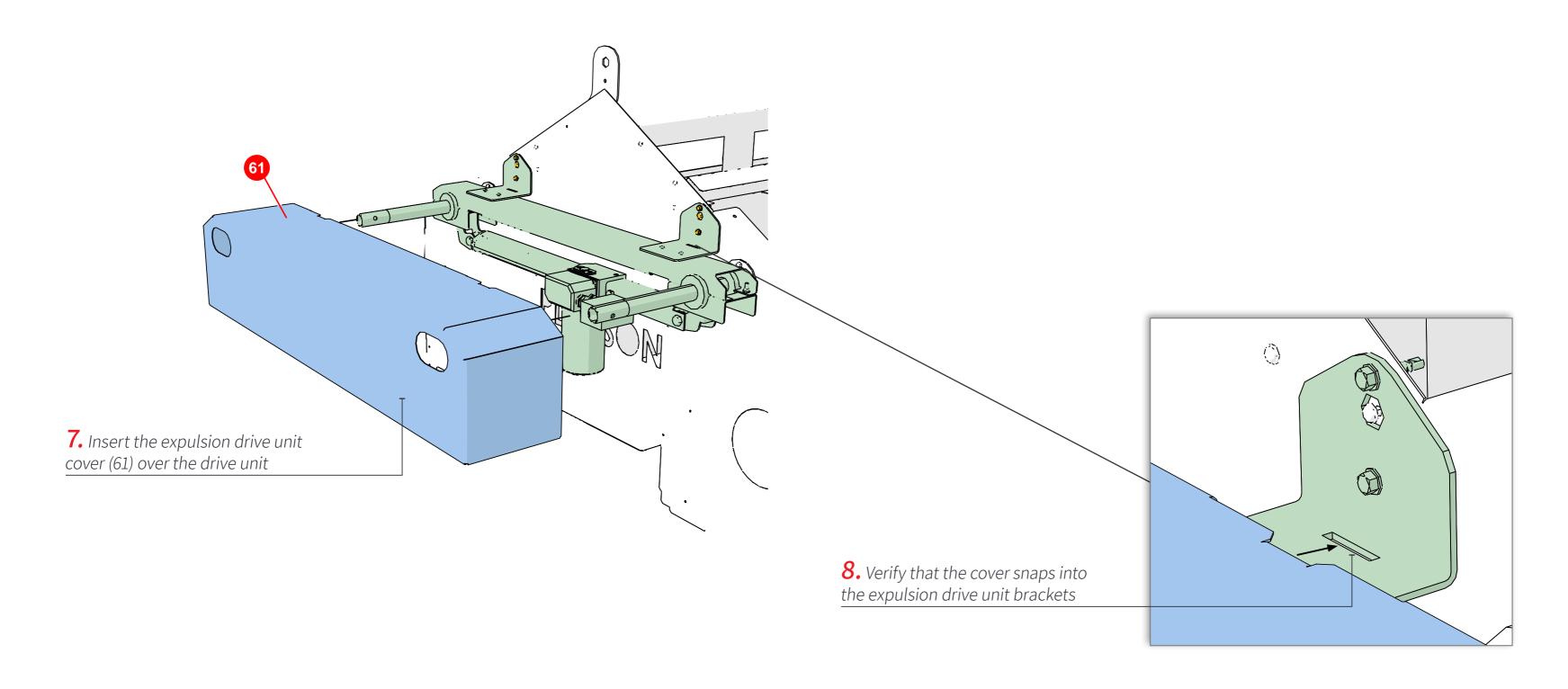
holds the grid, then tighten the

upper screw which holds the pipe











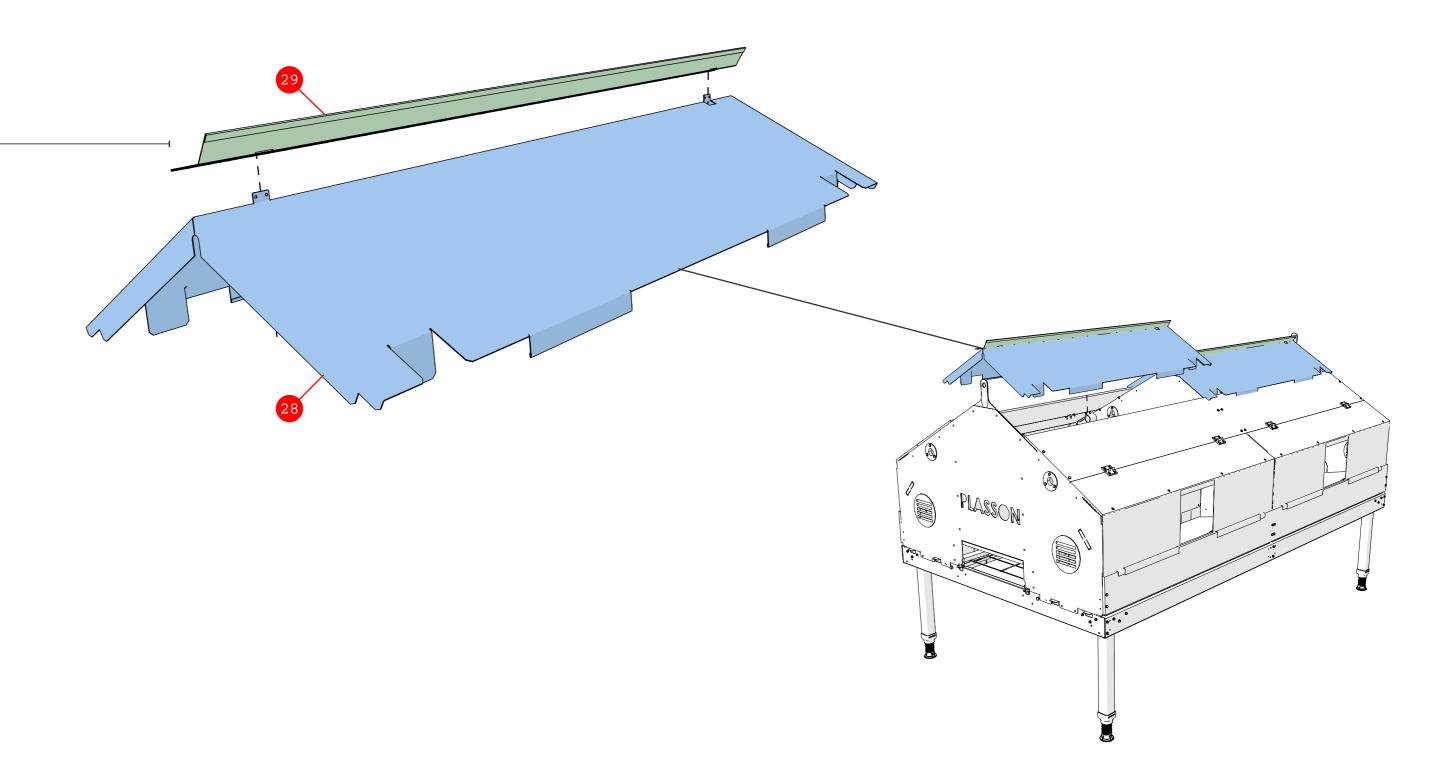
#### Step 24: Assembling the Nest Roofs

1. Attach the roof assembly (20) to the nest walls using twelve screws (32) and twelve nuts (5) Reverse view



**2.** Place the antiperch swing (29) on the roofs (28)

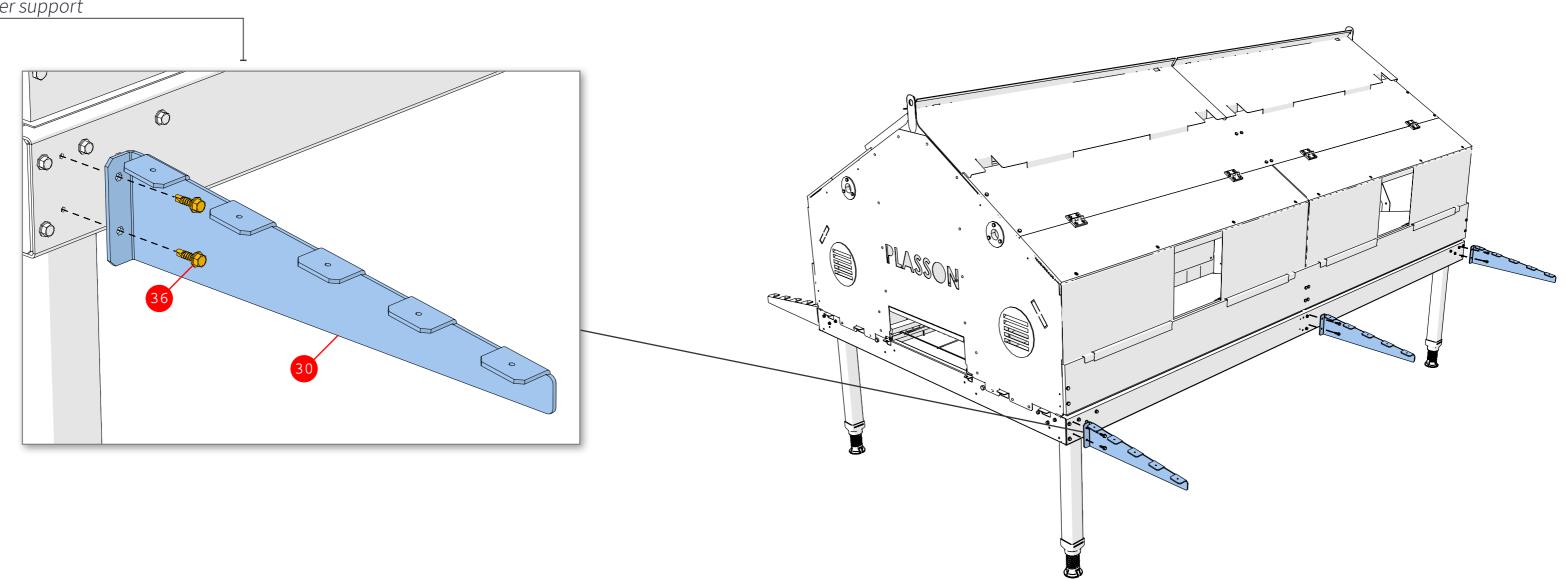
**3.** Place the roofs on the nest



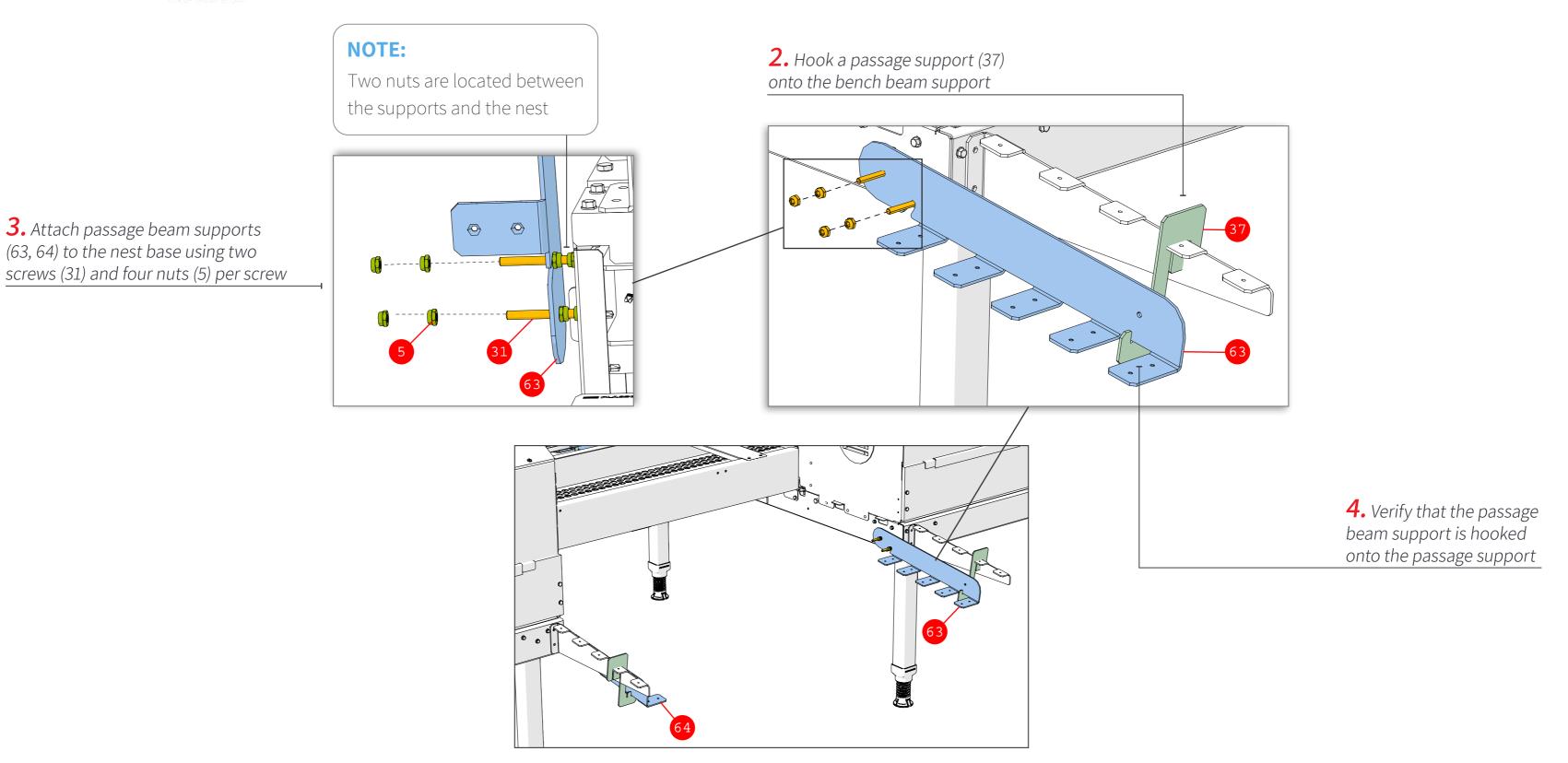


#### Step 25: Assembling the Benches

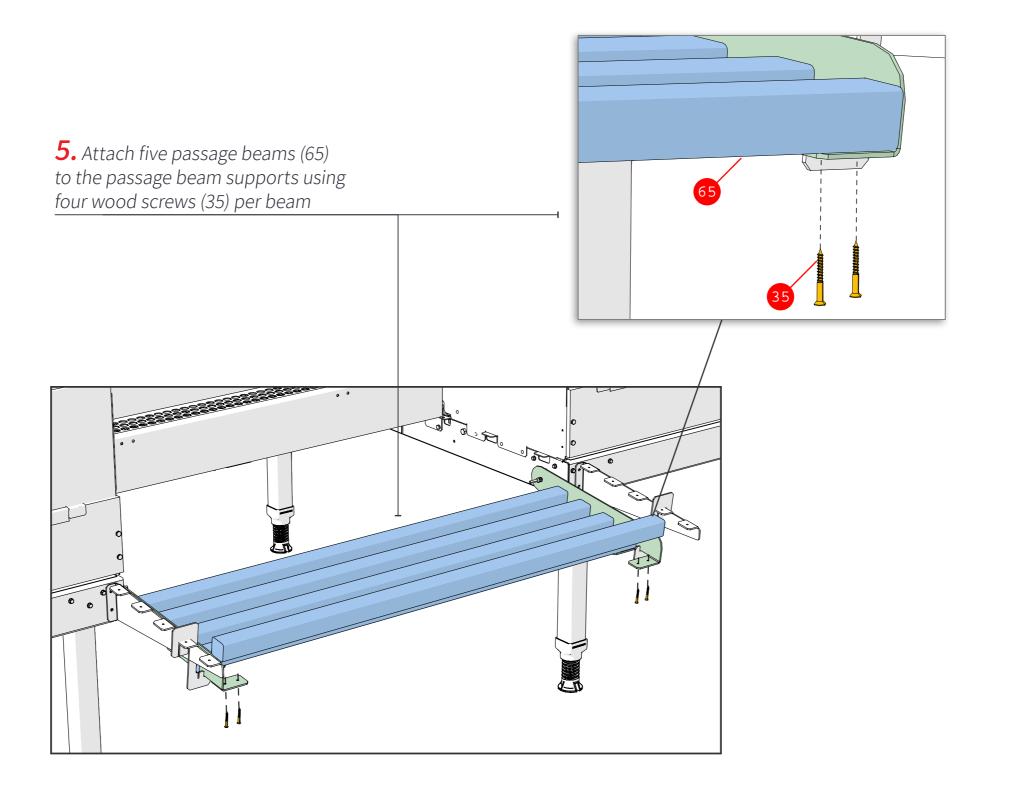
1. Attach the bench beam supports (30) to the nest base using two self-drilling screws (36) per support













**6.** Attach five bench beams (66) to the bench beam supports using three wood screws (35) per beam



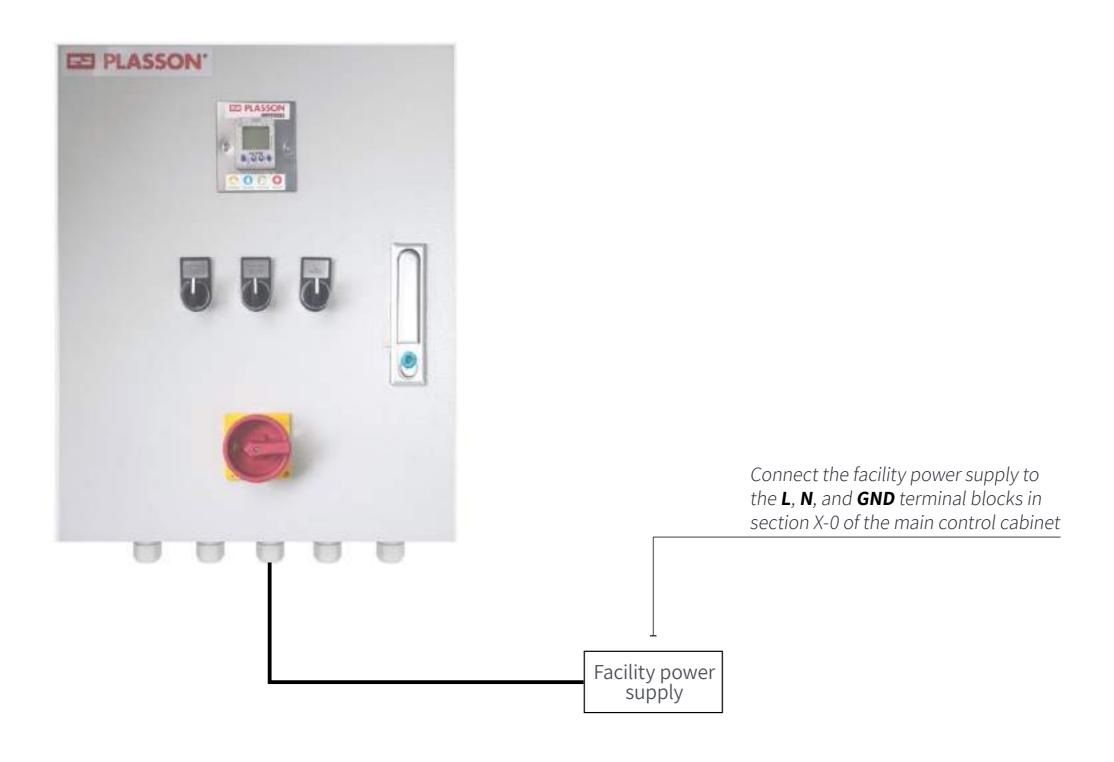
#### Power and Control Connections

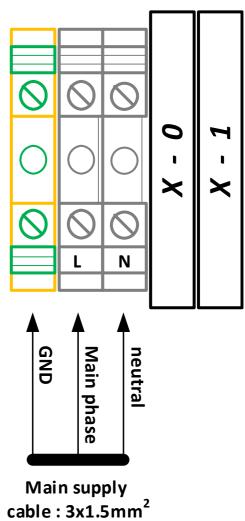
This section describes the power and control connections and includes:

- Main Power Connection
- Suspension System Drive Unit Connection
- Expulsion System Drive Unit Connection
- Conveyor Belt Drive Unit Connection
- Auto-stop Sensor Check



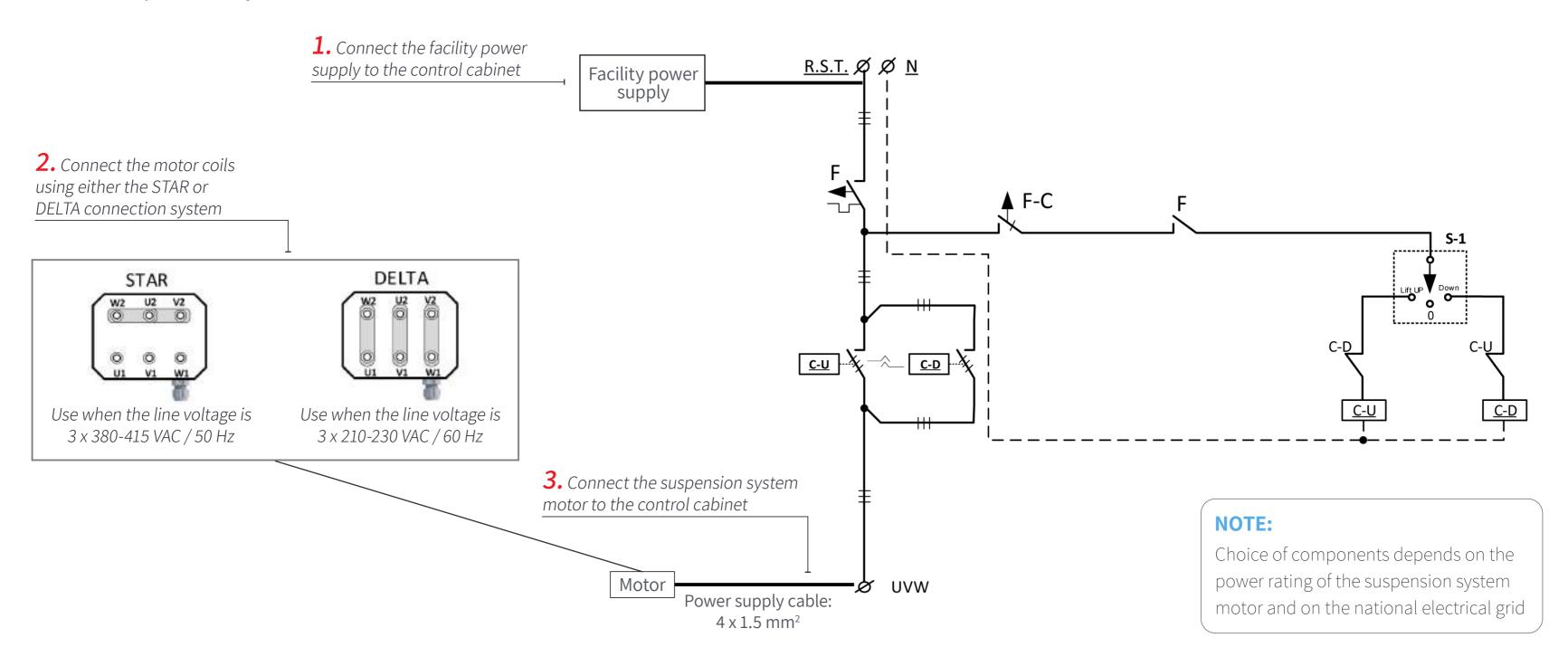
#### 3.4.1 Main Power Connection







#### 3.4.2 Suspension System Drive Unit Connection

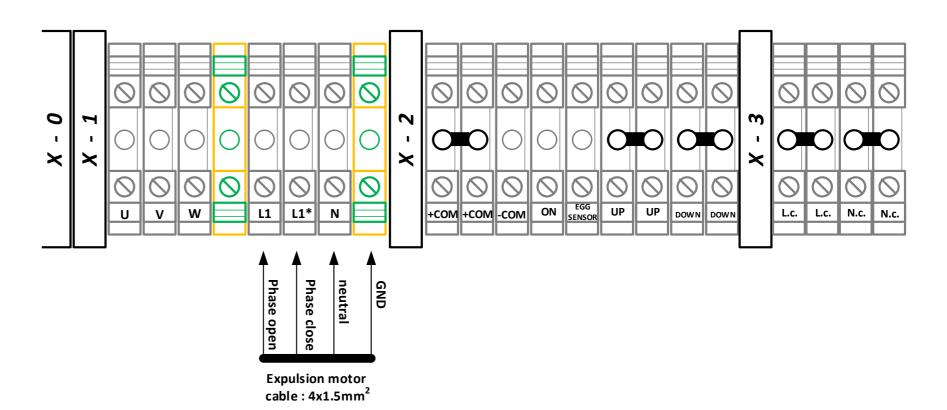




#### 3.4.3 Expulsion System Drive Unit Connection



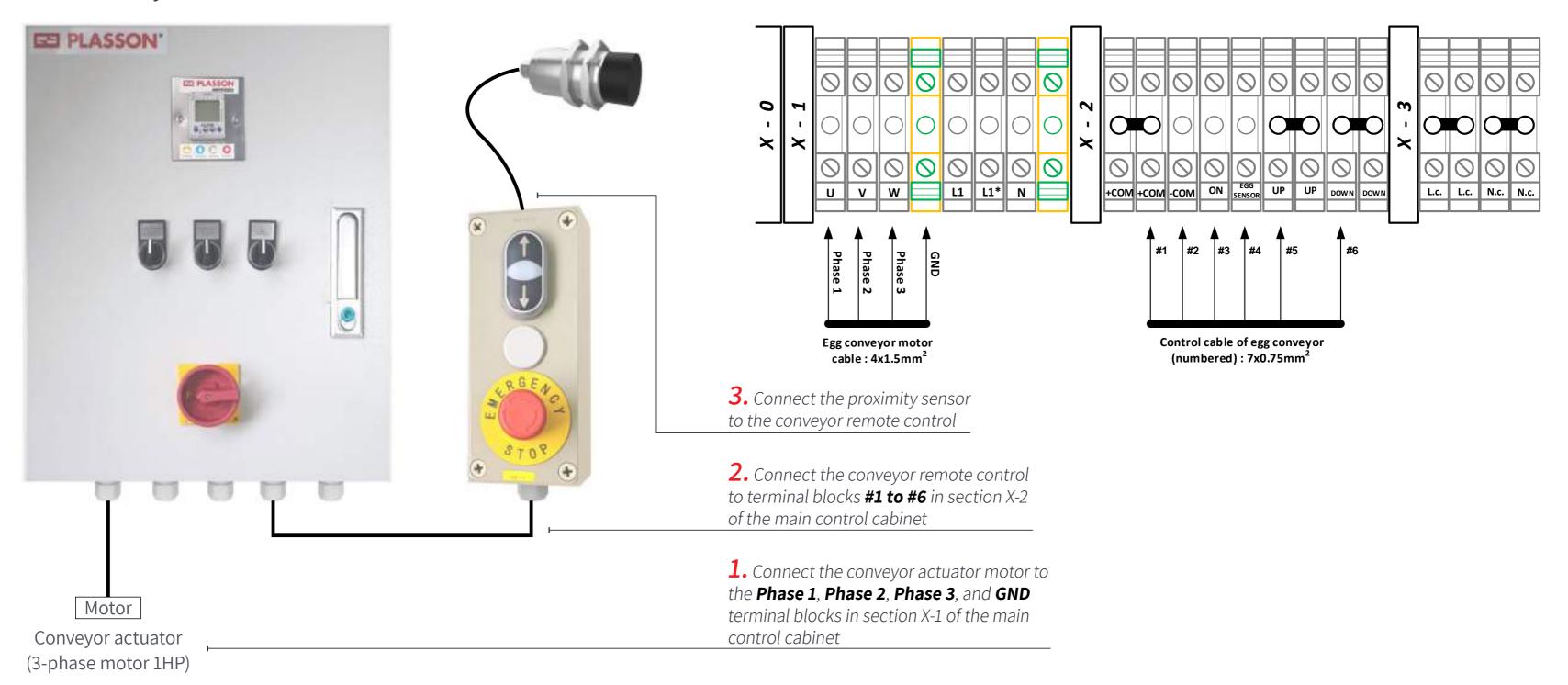
Expulsion actuator (option up to 3x0.75HP - 1 phase)



Connect each expulsion actuator motor to the **Phase open**, **Phase close**, **neutral**, and **GND** terminal blocks in section X-1 of the main control cabinet

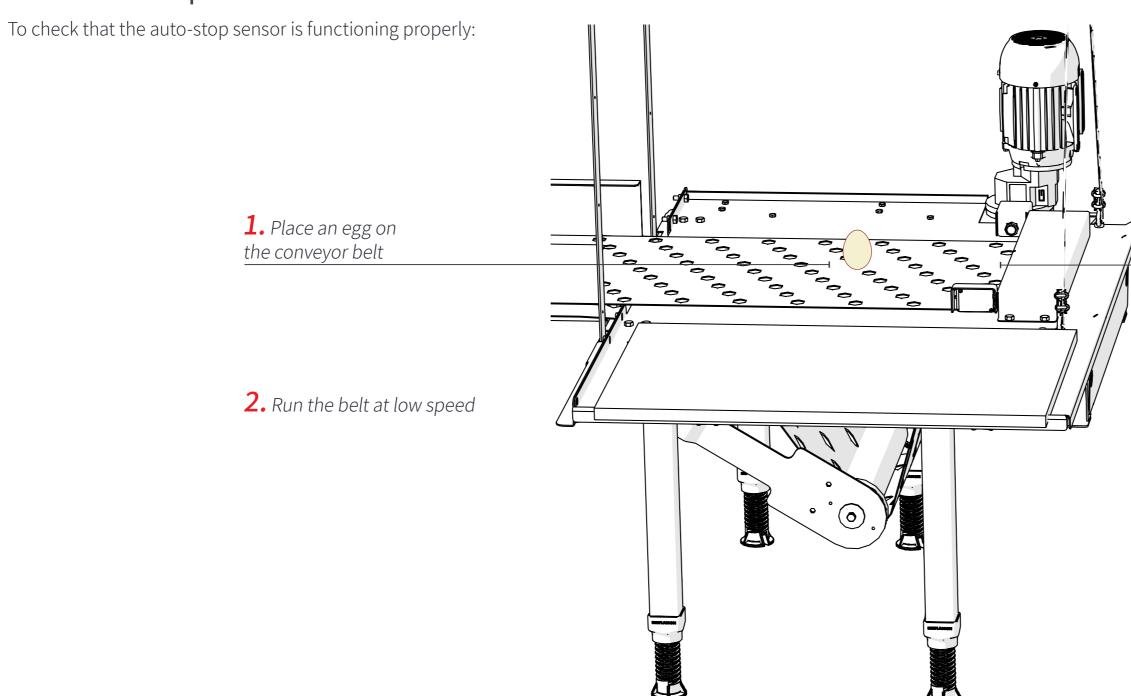


#### 3.4.4 Conveyor Belt Drive Unit Connection





#### 3.4.5 Auto-stop Sensor Check



**3.** Ensure the conveyor belt stops when the egg reaches the sensor



## Nest Opening/Closing Schedule Setup

This section describes programming of the timer which controls the opening and closing of the nest expulsion grids, and includes:

- Timer Overview
- Setting the Time
- Programming Nest Opening/Closing Times
- Locking/Unlocking the Timer
- Manually Opening/Closing Nest



#### 3.5.1 Timer Overview

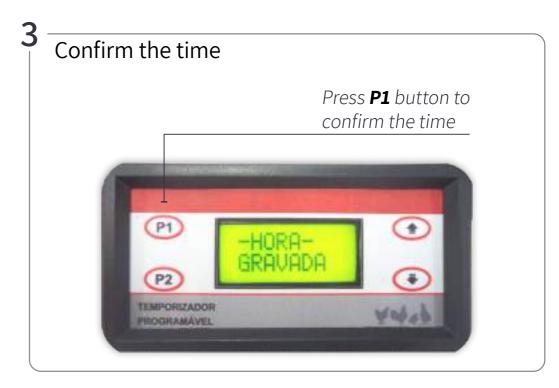
# Main Control Cabinet Buttons used to access nest opening (P1) and closing (P2) programs Expulsion grids timer Buttons used to define nest opening and closing times Buttons used to define nest opening and closing times

#### 3.5.2 Setting the Time





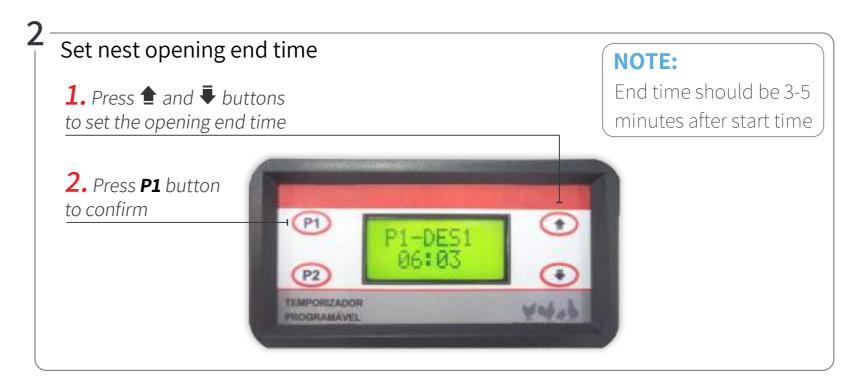
0.0



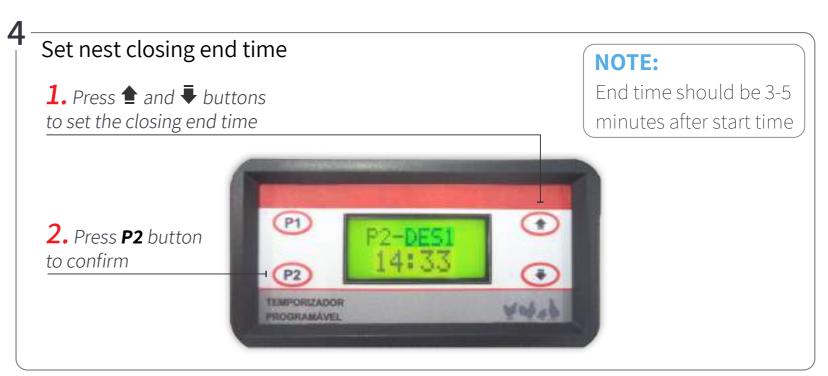


#### 3.5.3 Programming Nest Opening/Closing Times









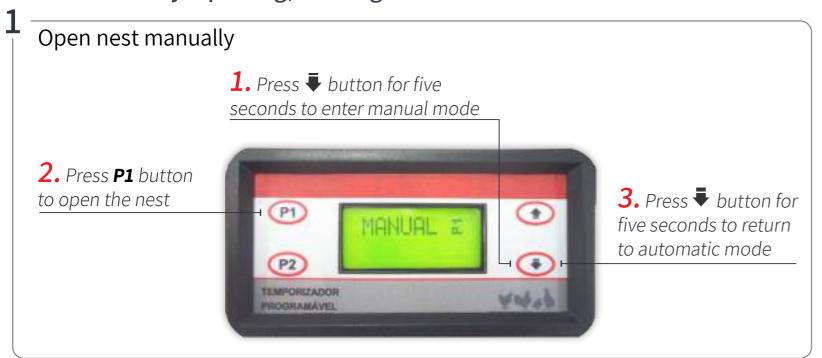


#### 3.5.4 Locking/Unlocking the Timer





#### 3.5.5 Manually Opening/Closing Nest







## 3.6 Bill of Materials (BOM)

The following table displays the list of parts required to assemble a standard section of the system:

| ID# | D/N      | P/N Description                     | QTY.   |        |
|-----|----------|-------------------------------------|--------|--------|
| ID# | P/N      |                                     | Single | Double |
| 1   | 02323067 | DIN 912 M8X80 ZINC D                | 8      | 12     |
| 2   | 02323065 | DIN 933 M6X20 SCREW                 | 86     | 155    |
| 3   | 02323070 | DIN 125 M8                          | 8      | 12     |
| 4   | 02323069 | DIN 985 M8 NUT ZINC D               | 12     | 28     |
| 5   | 02323068 | DIN 985 M6 NUT ZINC D               | 96     | 187    |
| 6   | 02323064 | POP RIVET SS304 4X10 LARGE HEAD     | 101    | 204    |
| 7   | 02371108 | PLSNST BASE MIDDLE PROFILE V2       | 2      |        |
| 8   | 02370698 | CONNECTION LEG                      | 4      | 6      |
| 9   | 02371104 | PLSNST LONG BEAM V2.1 90X35X20      | 2      |        |
| 10  | 02370721 | PLSNST LEG BASE B2600369            | 4      | 6      |
| 11  | 02370722 | PLSNST PLASTIC SCREW-LEG (B2600370) | 4      | 6      |
| 12  | 02371109 | PLSNST SIDE WALL V2                 | 1      |        |
| 13  | 02370691 | MIDDLE WALL                         | 1      | 2      |
| 14  | 02371111 | PLSNST INNER WALL                   | 1      |        |
| 15  | 02370688 | PLSNST SIDE WALL SUPPORT            | 4      | 6      |

| ID# P/N | D/N         | Description  | QTY.   |    |
|---------|-------------|--|--------|----|
|         | Description | Single   | Double |    |
| 16      | 02370790    | PLSNST NEST GRILL COVER                            | 4      |    |
| 17      | 02371113    | PLSNST STEP PLATE V2                               | 2      |    |
| 18      | 02371118    | PLSNST FLOOR GRID STAND V2                         | 8      |    |
| 19      | 02370693    | ROOF SUPPORT                                       | 2      | 10 |
| 20      | 02370747    | PLSNST ROOF WOODEN ASSEMBLY                        | 2      | 4  |
| 21      | 02370763    | PLSNST SHORT GRID SUPPORT FOR EGG BELT (1143.5 mm) | 2      | 4  |
| 22      | 02370764    | EXPULSION GRID                                     | 4      | 8  |
| 23      | 02370765    | LOWER GRID ARTIFICIAL TURF                         | 4      | 8  |
| 24      | 02370027    | ARTIFICIAL TURF                                    | 4      | 8  |
| 25      | 02370438    | FIXADOR PLAST. TAPPET                              | 6      |    |
| 26      | 02370844    | PLSNST PASSAGE 1.2m PROFILE                        | 2      |    |
| 27      | 02370766    | EXPULSION GRID BRACKET                             | 16     | 32 |
| 28      | 02370682    | PLSNST ROOF  | 2      | 4  |
| 29      | 02371042    | PLSNST ANTIPERCH SWING                             | 2      |    |
| 30      | 02371121    | PLSNST BEAM SUPPORT V0.5                           | 6      |    |
| 31      | 02323066    | DIN 933 M6X55 SCREW ZINK PLATED                    | 8      |    |
| 32      | 02323226    | DIN 7985 M6 x 25 SCREW ZINC D                      | 16     | 32 |
| 33      | 02323037    | DIN 933 M8X50 SCREW ZINC D                         | 4      | 4  |

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| ID# | D/N             | Description   | QTY.   |        |
|-----|-----------------|---|--------|--------|
| ID# | P/N Description | Description   | Single | Double |
| 34  | 02323227        | DIN 913 M8 x 80 ZINC D                              | 2      | 6      |
| 35  | 02323038        | WOOD SCREW, 4X35, ZINC D, DIN 7997                  | 30     | 50     |
| 36  | 02310027        | Self Drilling - Hex Washer Head 1/4"-3/4"           | 4      | 12     |
| 37  | 02371147        | PLSNST PASSAGE BENCH SUPPORT                        | 4      |        |
| 38  | 02371122        | PLSNST SIDEWALL BRACKET FOR ENTRANCE PLATE          | 3      |        |
| 39  | 02371124        | PLSNST LEG SET                                      | 2      |        |
| 40  | 02370700        | PLSNST SINGLE NEST UNIT BASIC                       | 1      | N/A    |
| 41  | 02370858        | PLSNST SINGLE BASE SET                              | 1      | N/A    |
| 42  | 02370699        | BASE WELDED ASSY                                    | 1      | N/A    |
| 43  | 02370933        | PLSNST BREEDERS SINGLE NEST WOOD SUPPORT KIT        | 1      | N/A    |
| 44  | 02370862        | PLSNST WOOD PROFILE 40X40 FOR SINGLE NEST (2440 mm) | 10     | N/A    |
| 45  | 02370850        | PLSNST LONG NEST UNIT "BASIC"                       | N/A    | 1      |
| 46  | 02370851        | PLSNST LONG NEST BASE WITH LEGS                     | N/A    | 1      |
| 47  | 02370753        | LONG WELD BASE                                      | N/A    | 1      |
| 48  | 02370668        | PLSNST DOUBLE UNIT MIDDLE SUPPORT                   | N/A    | 1      |
| 49  | 02370748        | SIDE STEP BRACKET                                   | N/A    | 2      |

| ID# | D/N      | Description   | QTY.   | ГҮ.    |
|-----|----------|---|--------|--------|
|     | P/N      | Description   | Single | Double |
| 50  | 02370970 | PLSNST BREEDERS DOUBLE NEST WOOD SUPPORT KIT        | N/A    | 1      |
| 51  | 02370861 | PLSNST WOOD PROFILE 40X40 FOR DOUBLE NEST (4872 mm) | N/A    | 10     |
| 52  | 02323212 | DIN 965 ZINC D M6X25 SCREW                          |        |        |
| 53  | 02370746 | SUSPENSION PIPE BEARING                             |        |        |
| 54  | 02323071 | SUSPENSION PIPE                                     |        |        |
| 55  | 02370927 | PLSNST SUSPENSION PIPE ADAPTER KIT                  |        |        |
| 56  | 02323234 | DIN 933 M10X100 (10.9) SCREW ZINC D                 |        |        |
| 57  | 02382424 | DIN 985 M10 NUT ZINC D                              |        |        |
| 58  | 02370792 | EGG BELT  | 1      | 1      |
| 59  | 02370667 | PLSNST HINGE  | 2      | 4      |
| 60  | 02370899 | EXPULSION MOTOR                                     | 1      | 1      |
| 61  | 02370924 | EXPULSION MOTOR COVER                               | 1      | 1      |
| 62  | 02323072 | EXPULSION PIPE                                      |        |        |
| 63  | 02370686 | PASSAGE BEAM SUPPORT –R                             |        |        |
| 64  | 02370689 | PASSAGE BEAM SUPPORT –L                             |        |        |
| 65  | 02370971 | PLSNS WOOD PROFILE FOR 1.2M<br>PASSAGE (1166 MM)    | 20     |        |

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| ID# | D/N      | Daniel Caller                                      | QTY.   |        |
|-----|----------|--|--------|--------|
| ID# | P/N      | Description  | Single | Double |
| 66  | 02370862 | PLSNST WOOD PROFILE 40X40 FOR SINGLE NEST (2440mm) | 40     |        |
| 67  | 02320076 | DIN 933 M8X35 SCREW ZINC D                         |        |        |
| 68  | 02310431 | DIN 315 M8 WING NUT                                |        |        |
| 69  | 02323233 | DIN 933 M8X20 SCREW                                |        |        |
| 70  | 02370962 | PLSNST COLLECTION TABLE ADAPTER TO PASSAGE         | 1      | 1      |
| 71  | 02323039 | THIMBLE FOR 6MM CABLE                              |        |        |
| 72  | 02370666 | PLSNST HANDLE                                      | 1      | 2      |
| 73  | 02370813 | PLSNST EGGS BELT CONNECTION STRIP                  | 12     | 12     |
| 74  | 02323232 | DIN 933 M8X16 SCREW                                |        |        |
| 75  | 02370966 | PLSNST COLLECTION TABLE SAFETY COVER               | 1      | 1      |
| 76  | 02370878 | PLSNST PASSAGE COVER FOR 1.5m                      | 1      |        |
| 77  | 02370702 | PASSAGE SUPPORT                                    | 4      | 6      |
| 78  |          | Nest lifting drive unit plate                      |        |        |
| 79  |          | Chain coupler                                      |        |        |
| 80  |          | Nest suspension drive unit                         | 1      | 1      |
| 81  |          | Collection table motor                             | 1      | 1      |

| ID# | D/N      | Decembries                     | QTY. Single Double  1 1 | ГҮ. |
|-----|----------|--------------------------------|-------------------------|-----|
|     | P/N      | Description                    |                         |     |
| 82  |          | Conveyor belt end unit         | 1                       | 1   |
| 83  | 02371105 | PLSNST SHORT BEAM              | 3                       |     |
| 84  | 02371104 | PLSNST LONG BEAM V2.1 90X35X20 | 2                       |     |

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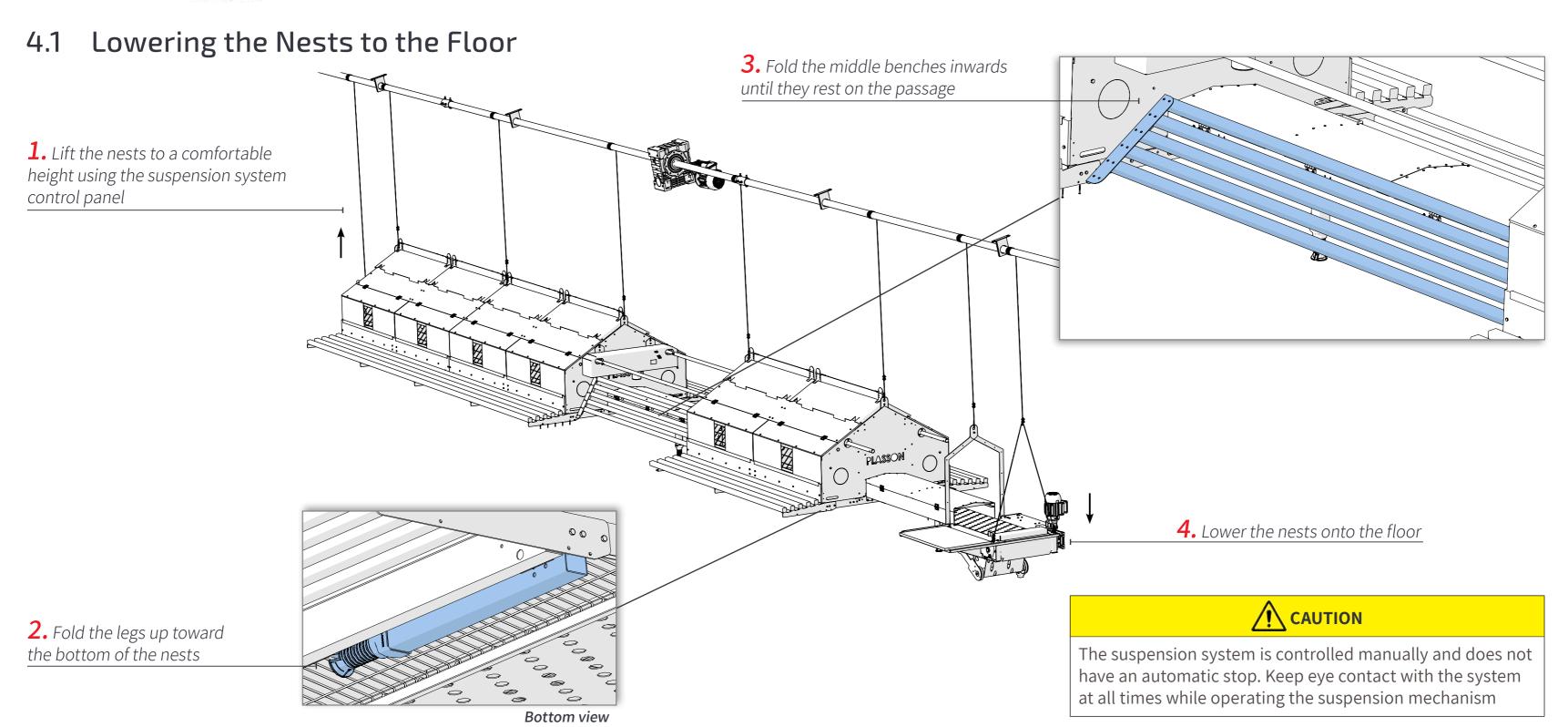


# 4. Operation Instructions

This chapter reviews the tasks associated with first-time operation of the system after installation and includes:

- Lowering the Nests to the Floor
- Running the Egg Collection Conveyor Belt







### Running the Egg Collection Conveyor Belt

1. Push the up/down buttons on the remote to speed up/ slow down the conveyor belt



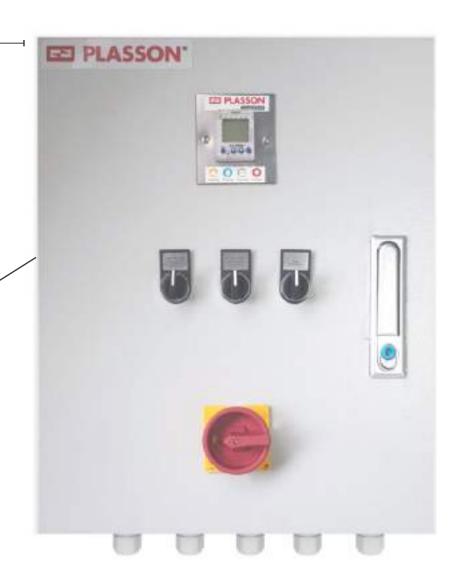
2. Open the control cabinet and locate the frequency converter

**3.** Verify that the number on the frequency converter does not exceed 50 Hz

#### **NOTE:**

The frequency converter box is located inside the control cabinet







# **Revision History**

| Revision | Date | Description     | Approval |
|----------|------|-----------------|----------|
| А        |      | Initial release | Shaul S. |
|          |      |                 |          |
|          |      |                 |          |
|          |      |                 |          |
|          |      |                 |          |





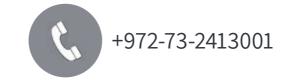














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